

## 5473

Gly Glu Glu Gln Pro Leu Ala Ala Ala Pro Thr Glu Cys Leu Glu Gln  
 1 5 10 15  
 Val Ile Gly Gly Ala Gly Asp Pro Gly Thr Trp Ala Ser Phe Pro Ser  
 20 25 30  
 Pro Leu Pro Gly Pro Ala Pro Leu Lys Gly Gly Lys Thr Met Ala Thr  
 35 40 45  
 Asn Phe Ser Asp Ile Val Lys Gln Gly Tyr Val Lys Met Lys Ser Arg  
 50 55 60  
 Lys Leu Gly Ile Tyr Arg Arg Cys Trp Leu Val Phe Arg Lys Ser Ser  
 65 70 75 80  
 Ser Lys Gly Pro Gln Arg Leu Glu Lys Tyr Pro Asp Glu Lys Ser Val  
 85 90 95  
 Cys Leu Arg Gly Cys Pro Lys Val Thr Glu Ile Ser Asn Val Lys Cys  
 100 105 110  
 Val Thr Arg Leu Pro Lys Glu Thr Lys Arg Gln Ala Val Ala Ile Ile  
 115 120 125  
 Phe Thr Asp Asp Ser Ala Arg Thr Phe Thr Cys Asp Ser Glu Leu Glu  
 130 135 140  
 Ala Glu Glu Trp Tyr Lys Thr Leu Ser Val Glu Cys Leu Gly Ser Arg  
 145 150 155 160  
 Leu Asn Asp Ile Ser Leu Gly Glu Pro Asp Leu Leu Ala Pro Gly Val  
 165 170 175  
 Gln Cys Glu Gln Thr Asp Arg Phe Asn Val Phe Leu Leu Pro Cys Pro  
 180 185 190  
 Asn Leu Asp Val Tyr Gly Glu Cys Lys Leu Gln Ile Thr His Glu Asn  
 195 200 205  
 Ile Tyr Leu Trp Asp Ile His Asn Pro Arg Val Lys Leu Val Ser Trp  
 210 215 220  
 Xaa Leu Cys Xaa Xaa Arg Arg Tyr Gly Arg Asp Ala Thr Arg Phe Thr  
 225 230 235 240  
 Phe Glu Ala Gly Arg Met Cys Asp Ala Gly Glu Gly Leu Tyr Thr Phe  
 245 250 255  
 Gln Thr Gln Glu Gly Glu Gln Ile Tyr Gln Arg Val His Ser Ala Thr  
 260 265 270

## 5474

Leu Ala Ile Ala Glu Gln His Lys Arg Val Leu Leu Glu Met Glu Lys  
 275 280 285

Thr

<210> 6251

<211> 147

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6251

Arg Xaa Gln Ala Pro Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg  
 1 5 10 15

Phe Asn Gln Thr Ala Gln Thr Cys Met Glu Ala Ala Ser Asp Arg Leu  
 20 25 30

Gly Leu Gly Gln Arg Arg Ser Lys Thr Met Val Gly Lys Met Trp Pro  
 35 40 45

Val Leu Trp Thr Leu Cys Ala Val Arg Val Thr Val Asp Ala Ile Ser  
 50 55 60

Val Glu Thr Pro Gln Asp Val Leu Arg Ala Ser Gln Gly Lys Ser Val  
 65 70 75 80

Thr Leu Pro Cys Thr Tyr His Thr Ser Thr Ser Ser Arg Glu Gly Leu  
 85 90 95

Ile Gln Trp Asp Lys Leu Leu Leu Thr His Thr Glu Arg Val Val Ile  
 100 105 110

Trp Pro Phe Ser Asn Lys Asn Tyr Ile His Gly Glu Leu Tyr Lys Asn  
 115 120 125

Arg Val Ser Ile Ser Asn Asn Ala Glu Gln Ser Asp Ala Ser Ser Pro  
 130 135 140

Leu Ile Ser  
 145

## 5475

&lt;210&gt; 6252

&lt;211&gt; 179

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6252

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Pro Arg Gly Thr Ser Arg Arg Ser Ala Trp Pro Lys Met Ala Ala Ser
 1             5             10             15

Val Cys Ser Gly Leu Leu Gly Pro Arg Val Leu Ser Trp Ser Arg Glu
          20             25             30

Leu Pro Cys Ala Trp Arg Ala Leu His Thr Ser Pro Val Cys Ala Lys
          35             40             45

Asn Arg Ala Ala Arg Val Arg Val Ser Lys Gly Asp Lys Pro Val Thr
          50             55             60

Tyr Glu Glu Ala His Ala Pro His Tyr Ile Ala His Arg Lys Gly Trp
 65             70             75             80

Leu Ser Leu His Thr Gly Asn Leu Asp Gly Glu Asp His Ala Ala Glu
          85             90             95

Arg Thr Val Glu Asp Val Phe Leu Arg Lys Phe Met Trp Gly Thr Phe
          100            105            110

Pro Gly Cys Leu Ala Asp Gln Leu Val Leu Lys Arg Arg Gly Asn Gln
          115            120            125

Leu Glu Ile Cys Ala Val Val Leu Arg Gln Leu Ser Pro His Lys Tyr
          130            135            140

Tyr Phe Leu Val Gly Tyr Ser Glu Thr Leu Leu Ser Tyr Phe Tyr Lys
          145            150            155            160

Cys Pro Val Arg Leu His Leu Gln Thr Val Pro Ser Lys Val Val Tyr
          165            170            175

Lys Tyr Leu

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&lt;210&gt; 6253

&lt;211&gt; 288

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6253

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Glu Ile Arg Val Ser Cys Thr Ala Gly Ala Gly Phe Pro Ala Ala Gln

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## 5476

1	5	10	15
Ala Arg Val Arg Cys Leu Cys His Leu Ile Leu Met Ser Gly Glu Ile	20	25	30
Ala Met Cys Glu Pro Glu Phe Gly Asn Asp Lys Ala Arg Glu Pro Ser	35	40	45
Val Gly Gly Arg Trp Arg Val Ser Trp Tyr Glu Arg Phe Val Gln Pro	50	55	60
Cys Leu Val Glu Leu Leu Gly Ser Ala Leu Phe Ile Phe Ile Gly Cys	65	70	75
Leu Ser Val Ile Glu Asn Gly Thr Asp Thr Gly Leu Leu Gln Pro Ala	85	90	95
Leu Ala His Gly Leu Ala Leu Gly Leu Val Ile Ala Thr Leu Gly Asn	100	105	110
Ile Ser Gly Gly His Phe Asn Pro Ala Val Ser Leu Ala Ala Met Leu	115	120	125
Ile Gly Gly Leu Asn Leu Val Met Leu Leu Pro Tyr Trp Val Ser Gln	130	135	140
Leu Leu Gly Gly Met Leu Gly Ala Ala Leu Ala Lys Ala Val Ser Pro	145	150	155
Glu Glu Arg Phe Trp Asn Ala Ser Gly Ala Ala Phe Val Thr Val Gln	165	170	175
Glu Gln Gly Gln Val Ala Gly Ala Leu Val Ala Glu Ile Ile Leu Thr	180	185	190
Thr Leu Leu Ala Leu Ala Val Cys Met Gly Ala Ile Asn Glu Lys Thr	195	200	205
Lys Gly Pro Leu Ala Pro Phe Ser Ile Gly Phe Ala Val Thr Val Asp	210	215	220
Ile Leu Ala Gly Gly Pro Val Ser Gly Gly Cys Met Asn Pro Ala Arg	225	230	235
Ala Phe Gly Pro Ala Val Val Ala Asn His Trp Asn Phe His Trp Ile	245	250	255
Tyr Trp Leu Gly Pro Leu Leu Ala Gly Leu Leu Val Gly Leu Leu Ile	260	265	270
Arg Cys Phe Ile Gly Asp Gly Lys Thr Arg Leu Ile Leu Lys Ala Gln			



5477

275

280

285

&lt;210&gt; 6254

&lt;211&gt; 165

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (158)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6254

Gly Val Thr Arg Pro Thr Arg Ala Pro Arg Phe Ala Ser Ala Ala Ser  
 1 5 10 15

Trp Pro Lys Gly Gly Asp Arg Gly Gly Trp Arg Gly Ala Ala Arg Thr  
 20 25 30

Arg Ser Pro Gly Ala Gly Pro Val Arg Thr Ala Arg Glu Gly Arg Ser  
 35 40 45

Val Gly Arg Ser Arg Pro Arg Asp Ser Ile Ser Ala Arg Ser Asp Asn  
 50 55 60

Ser Pro Phe Pro Trp Arg Ser Leu Arg Ala Trp His Pro Ala Gly Arg  
 65 70 75 80

Leu Lys Thr Val Val Ser Ser Ile Ala Ser Leu Asp Leu Ala Thr Ile  
 85 90 95

Ser Glu Met Ser Ser Arg Ser Thr Lys Asp Leu Ile Lys Ser Lys Trp  
 100 105 110

Gly Ser Lys Pro Ser Asn Ser Lys Ser Glu Thr Thr Leu Glu Lys Leu  
 115 120 125

Lys Gly Glu Ile Ala His Leu Lys Thr Ser Val Asp Glu Ile Thr Ser  
 130 135 140

Gly Lys Gly Lys Leu Thr Asp Lys Glu Arg Gln Arg Phe Xaa Glu Lys  
 145 150 155 160

Ile Arg Val Leu Glu  
 165

5478

&lt;210&gt; 6255

&lt;211&gt; 189

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (137)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6255

Ser	Thr	Gly	Pro	Cys	Pro	Ser	His	Gly	Gln	Arg	Phe	Glu	Ser	Trp	Leu
1				5					10					15	

Ser	Cys	Thr	Cys	Val	Trp	Pro	Lys	Ala	Lys	Cys	Ala	Leu	Leu	Arg	Asp
			20					25					30		

Asp	Leu	Val	Leu	Val	Asp	Ser	Pro	Gly	Thr	Asp	Val	Thr	Thr	Glu	Leu
	35						40				45				

Asp	Ser	Trp	Ile	Asp	Lys	Phe	Cys	Leu	Asp	Ala	Asp	Val	Phe	Val	Leu
	50				55					60					

Val	Ala	Asn	Ser	Glu	Ser	Thr	Leu	Met	Asn	Thr	Glu	Lys	His	Phe	Phe
65					70					75					80

His	Lys	Val	Asn	Glu	Arg	Leu	Ser	Lys	Pro	Asn	Ile	Phe	Ile	Leu	Asn
			85						90					95	

Asn	Arg	Trp	Asp	Ala	Ser	Ala	Ser	Glu	Pro	Glu	Tyr	Met	Glu	Asp	Val
			100					105					110		

Arg	Arg	Gln	His	Met	Glu	Arg	Cys	Leu	His	Phe	Leu	Val	Glu	Glu	Leu
			115				120					125			

Lys	Val	Val	Asn	Ala	Leu	Glu	Ala	Xaa	Asn	Arg	Ile	Phe	Phe	Val	Ser
	130					135					140				

Ala	Lys	Glu	Val	Leu	Ser	Ala	Arg	Lys	Gln	Lys	Ala	Gln	Gly	Met	Pro
145					150					155					160

Glu	Ser	Gly	Val	Ala	Leu	Ala	Glu	Gly	Phe	His	Ala	Arg	Leu	Gln	Glu
				165				170						175	

Phe	Gln	Asn	Phe	Glu	Gln	Ile	Phe	Glu	Val	Gly	Ile	Leu
			180					185				

## 5479

&lt;210&gt; 6256

&lt;211&gt; 337

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6256

Arg Pro Asp Leu Ala Thr Met Arg Ala Leu Leu Ala Arg Leu Leu Leu  
 1 5 10 15

Cys Val Leu Val Val Ser Asp Ser Lys Gly Ser Asn Glu Leu His Gln  
 20 25 30

Val Pro Ser Asn Cys Asp Cys Leu Asn Gly Gly Thr Cys Val Ser Asn  
 35 40 45

Lys Tyr Phe Ser Asn Ile His Trp Cys Asn Cys Pro Lys Lys Phe Gly  
 50 55 60

Gly Gln His Cys Glu Ile Asp Lys Ser Lys Thr Cys Tyr Glu Gly Asn  
 65 70 75 80

Gly His Phe Tyr Arg Gly Lys Ala Ser Thr Asp Thr Met Gly Arg Pro  
 85 90 95

Cys Leu Pro Trp Asn Ser Ala Thr Val Leu Gln Gln Thr Tyr His Ala  
 100 105 110

His Arg Ser Asp Ala Leu Gln Leu Gly Leu Gly Lys His Asn Tyr Cys  
 115 120 125

Arg Asn Pro Asp Asn Arg Arg Arg Pro Trp Cys Tyr Val Gln Val Gly  
 130 135 140

Leu Lys Pro Leu Val Gln Glu Cys Met Val His Asp Cys Ala Asp Gly  
 145 150 155 160

Lys Lys Pro Ser Ser Pro Pro Glu Glu Leu Lys Phe Gln Cys Gly Gln  
 165 170 175

Lys Thr Leu Arg Pro Arg Phe Lys Ile Ile Gly Gly Glu Phe Thr Thr  
 180 185 190

Ile Glu Asn Gln Pro Trp Phe Ala Ala Ile Tyr Arg Arg His Arg Gly  
 195 200 205

Gly Ser Val Thr Tyr Val Cys Gly Gly Ser Leu Ile Ser Pro Cys Trp  
 210 215 220

Val Ile Ser Ala Thr His Cys Phe Ile Asp Tyr Pro Lys Lys Glu Asp  
 225 230 235 240

## 5480

Tyr Ile Val Tyr Leu Gly Arg Ser Arg Leu Asn Ser Asn Thr Gln Gly  
                   245                                  250                                  255  
 Glu Met Lys Phe Glu Val Glu Asn Leu Ile Leu His Lys Asp Tyr Ser  
                   260                                  265                                  270  
 Ala Asp Thr Leu Ala His His Asn Asp Ile Ala Leu Leu Lys Ile Arg  
                   275                                  280                                  285  
 Ser Lys Glu Gly Arg Cys Ala Gln His Pro Gly Leu Tyr Arg Pro Ser  
                   290                                  295                                  300  
 Ala Cys Pro Arg Cys Ile Thr Ile Pro Ser Leu Ala Gln Ala Val Arg  
 305                                  310                                  315                                  320  
 Ser Leu Ala Leu Glu Lys Arg Ile Leu Pro Thr Ile Ser Ile Arg Ser  
                   325                                  330                                  335

Ser

<210> 6257

<211> 89

<212> PRT

<213> Homo sapiens

<400> 6257

Asn Lys Lys Lys Lys Lys Lys Lys Lys Lys Asn Ser Arg Gly Gly Pro  
   1                                  5                                  10                                  15  
 Val Pro Asn Ser Pro Tyr Ser Glu Ser Tyr Tyr Asn Ser Leu Ala Val  
                   20                                  25                                  30  
 Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn  
                   35                                  40                                  45  
 Arg Leu Ala Ala His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu  
                   50                                  55                                  60  
 Ala Arg Thr Asp Arg Leu Pro Thr Val Ala Gln Pro Glu Trp Arg Met  
                   65                                  70                                  75                                  80  
 Ala Asn Cys Lys Ala Leu Ile Phe Trp  
                   85

<210> 6258

<211> 370

## 5481

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6258

Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg  
 1 5 10 15

Pro Gly Lys Leu Val Ala Leu Val Leu Leu Gly Val Gly Leu Ser Leu  
 20 25 30

Val Gly Glu Met Phe Leu Ala Phe Arg Glu Arg Val Asn Ala Ser Arg  
 35 40 45

Glu Val Glu Pro Val Glu Pro Glu Asn Cys His Leu Ile Glu Glu Leu  
 50 55 60

Glu Ser Gly Ser Glu Asp Ile Asp Ile Leu Pro Ser Gly Leu Ala Phe  
 65 70 75 80

Ile Ser Ser Gly Leu Lys Tyr Pro Gly Met Pro Asn Phe Ala Pro Asp  
 85 90 95

Glu Pro Gly Lys Ile Phe Leu Met Asp Leu Asn Glu Gln Asn Pro Arg  
 100 105 110

Ala Gln Ala Leu Glu Ile Ser Gly Gly Phe Asp Lys Glu Leu Phe Asn  
 115 120 125

Pro His Gly Ile Ser Ile Phe Ile Asp Lys Asp Asn Thr Val Tyr Leu  
 130 135 140

Tyr Val Val Asn His Pro His Met Lys Ser Thr Val Glu Ile Phe Lys  
 145 150 155 160

Phe Glu Glu Gln Gln Arg Ser Leu Val Tyr Leu Lys Thr Ile Lys His  
 165 170 175

Glu Leu Leu Lys Ser Val Asn Asp Ile Val Val Leu Gly Pro Glu Gln  
 180 185 190

Phe Tyr Ala Thr Arg Asp His Tyr Phe Thr Asn Ser Leu Leu Ser Phe  
 195 200 205

Phe Glu Met Ile Leu Asp Leu Arg Trp Thr Tyr Val Leu Phe Tyr Ser  
 210 215 220

Pro Arg Glu Val Lys Val Val Ala Lys Gly Phe Cys Ser Ala Asn Gly  
 225 230 235 240

Ile Thr Val Ser Ala Asp Gln Lys Tyr Val Tyr Val Ala Asp Val Ala  
 245 250 255

## 5482

Ala Lys Asn Ile His Ile Met Glu Lys His Asp Asn Trp Asp Leu Thr  
 260 265 270

Gln Leu Lys Val Ile Gln Leu Gly Thr Leu Val Asp Asn Leu Thr Val  
 275 280 285

Asp Pro Ala Thr Gly Asp Ile Leu Ala Gly Cys His Pro Asn Pro Met  
 290 295 300

Lys Leu Leu Asn Tyr Asn Pro Glu Asp Pro Pro Gly Ser Glu Val Leu  
 305 310 315 320

Arg Ile Gln Asn Val Leu Ser Glu Lys Pro Arg Val Ser Thr Val Tyr  
 325 330 335

Ala Asn Asn Gly Ser Val Leu Gln Gly Thr Ser Val Ala Ser Val Tyr  
 340 345 350

His Gly Lys Ile Leu Ile Gly Thr Val Phe His Lys Thr Leu Tyr Cys  
 355 360 365

Glu Leu  
 370

<210> 6259

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6259

Leu Met Gln Ala Ile Ser Leu Phe Ser Xaa Asp Arg Pro Gly Val Leu  
 1 5 10 15

Gln His Arg Val Val Asp Gln Leu Gln Glu Gln Phe Ala Ile Thr Leu  
 20 25 30

Lys Ser Tyr Ile Glu Cys Asn Arg Pro Gln Pro Ala His Arg Phe Leu  
 35 40 45

Phe Leu Lys Ile Met Ala Met Leu Thr Glu Leu Arg Ser Ile Asn Ala  
 50 55 60

Gln His Thr Gln Arg Leu Leu Arg Ile Gln Asp Ile His Pro Phe Ala

## 5483

65                                      70                                      75                                      80

Thr Pro Leu Met Gln Glu Leu Phe Gly Ile Thr Gly Ser  
                                     85                                      90

<210> 6260

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6260

Val Ile Lys Leu Ile Cys Pro Ala Ala Phe Pro Val Tyr Phe Gln Asp  
   1                                    5                                    10                                    15

Met Ala Arg Gly Cys Val Cys Ser Leu Cys Ala Ser Val Cys Ile Xaa  
                                     20                                    25                                    30

Leu Ser Ser Leu Phe Pro Leu Leu Pro Ser Val His Ser Val Asn Ile  
                                     35                                    40                                    45

Ile Ser Cys Leu Xaa Leu Ser Lys Cys Phe Glu Ser Leu Asn Ser Cys  
                                     50                                    55                                    60

Val Ser Ile Leu Ser Thr Ile Pro Ile Ala Val Leu His His Lys Ser  
   65                                    70                                    75                                    80

Pro Ile Gly Xaa Tyr Pro  
                                     85

<210> 6261

<211> 95

<212> PRT

5484

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (80)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (82)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (94)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6261

Ala	Ser	Phe	Leu	Leu	Glu	Leu	Leu	Val	Leu	Pro	Ala	Ser	Thr	Thr	His
1				5					10					15	

Pro	Cys	Ser	Ala	Glu	Pro	Leu	Gly	Ala	Glu	Trp	Gln	Glu	Pro	Gln	Gly
			20				25					30			

Cys	Pro	Ile	Trp	Val	Trp	Leu	Ala	Gly	Ser	Leu	Thr	Ser	Val	Ile	Cys
		35					40					45			

Phe	Leu	Pro	Phe	Gln	Ile	Met	Arg	Ile	Lys	Pro	His	Gln	Gly	Gln	His
	50					55					60				

Ile	Gly	Glu	Met	Ser	Phe	Leu	Gln	His	Asn	Lys	Cys	Glu	Cys	Arg	Xaa
65					70					75					80

Lys	Xaa	Asp	Arg	Ala	Arg	Gln	Glu	Asn	Pro	Cys	Gly	Pro	Xaa	Ser	
				85					90					95	

&lt;210&gt; 6262

&lt;211&gt; 127

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6262

Ala	Asp	Asn	Asn	Phe	Thr	Gln	Glu	Thr	Ala	Met	Thr	Met	Ile	Thr	Pro
1				5					10				15		

Ser	Ser	Lys	Leu	Thr	Leu	Thr	Lys	Gly	Asn	Lys	Ser	Trp	Ser	Ser	Thr
			20					25				30			

Ala	Val	Ala	Ala	Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



## 5485

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          35              40              45
Ser Ala Arg Ala Trp Leu Leu Gln Asn Phe Leu Leu Phe Leu Leu Leu
  50              55              60

Leu Val Phe Ser Leu Leu Cys Phe Thr Leu Cys Ser Cys Pro Thr Val
  65              70              75              80

Leu Asp Ile Ile Phe Cys Ser Phe Gln Cys Phe Phe Ser Leu Val Phe
          85              90              95

Glu Val Ser Asp Asp Lys Ser Ser Ser Ser Glu Ile Leu Tyr Ser Ala
          100              105              110

Glu Ser Ser Leu Leu Ile Ser His Gln Arg Tyr Ser Ser Val Ile
          115              120              125

<210> 6263
<211> 247
<212> PRT
<213> Homo sapiens

<400> 6263
Pro Glu Asn Ser Thr Ser Ser Phe Leu Leu Trp Gly Cys Pro Pro Ser
  1              5              10              15

Val Val Cys Phe Thr Val Gly Ser Pro Ala Arg Arg Pro Gln Cys Phe
          20              25              30

Leu Arg Ala Glu Met Ala Asn Ser Gly Leu Gln Leu Leu Gly Phe Ser
          35              40              45

Met Ala Leu Leu Gly Trp Val Gly Leu Val Ala Cys Thr Ala Ile Pro
          50              55              60

Gln Trp Gln Met Ser Ser Tyr Ala Gly Asp Asn Ile Ile Thr Ala Gln
  65              70              75              80

Ala Met Tyr Lys Gly Leu Trp Met Asp Cys Val Thr Gln Ser Thr Gly
          85              90              95

Met Met Ser Cys Lys Met Tyr Asp Ser Val Leu Ala Leu Ser Ala Ala
          100              105              110

Leu Gln Ala Thr Arg Ala Leu Met Val Val Ser Leu Val Leu Gly Phe
          115              120              125

Leu Ala Met Phe Val Ala Thr Met Gly Met Lys Cys Thr Arg Cys Gly
          130              135              140

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## 5486

Gly Asp Asp Lys Val Lys Lys Ala Arg Ile Ala Met Gly Gly Gly Ile  
 145 150 155 160

Ile Phe Ile Val Ala Gly Leu Ala Ala Leu Val Ala Cys Ser Trp Tyr  
 165 170 175

Gly His Gln Ile Val Thr Asp Phe Tyr Asn Pro Leu Ile Pro Thr Asn  
 180 185 190

Ile Lys Tyr Glu Phe Gly Pro Ala Ile Phe Ile Gly Trp Ala Gly Ser  
 195 200 205

Ala Leu Val Ile Leu Gly Gly Ala Leu Leu Ser Cys Ser Cys Pro Gly  
 210 215 220

Asn Glu Ser Lys Ala Gly Tyr Arg Ala Pro Arg Ser Tyr Pro Lys Ser  
 225 230 235 240

Asn Ser Ser Lys Glu Tyr Val  
 245

<210> 6264

<211> 145

<212> PRT

<213> Homo sapiens

<400> 6264

Pro Asp Ser Val Phe Ser Pro Ala Ala Ser Pro Thr Lys Glu Ile Gln  
 1 5 10 15

Val Lys Lys Tyr Lys Cys Gly Leu Ile Lys Pro Cys Pro Ala Asn Tyr  
 20 25 30

Phe Ala Phe Lys Ile Cys Ser Gly Ala Ala Asn Val Val Gly Pro Thr  
 35 40 45

Met Cys Phe Glu Asp Arg Met Ile Met Ser Pro Val Lys Asn Asn Val  
 50 55 60

Gly Arg Gly Leu Asn Ile Ala Leu Val Asn Gly Thr Thr Gly Ala Val  
 65 70 75 80

Leu Gly Gln Lys Ala Phe Asp Met Tyr Ser Gly Asp Val Met His Leu  
 85 90 95

Val Lys Phe Leu Lys Glu Ile Pro Gly Gly Ala Leu Val Leu Val Ala  
 100 105 110

## 5487

Ser Tyr Asp Asp Pro Gly Thr Lys Met Asn Asp Glu Ser Arg Lys Leu  
 115 120 125

Phe Ser Asp Leu Gly Ser Ser Tyr Ala Lys Gln Leu Gly Phe Gly Thr  
 130 135 140

Val  
 145

<210> 6265  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<400> 6265  
 Leu Glu Ser Arg Ser Cys Thr Pro Leu Ile Phe Leu Leu Lys His Leu  
 1 5 10 15

Lys Val Tyr Ile Gly Cys Gln Met Ser Asn Ile Thr Tyr Phe Ile Leu  
 20 25 30

Phe Ser Ser Asn Leu Tyr Phe Thr Val Val Gln Gly Met Lys Glu Ala  
 35 40 45

Gln Glu Arg Leu Thr Gly Asp Ala Phe Arg Lys Lys His Leu Glu Asp  
 50 55 60

Glu Leu  
 65

<210> 6266  
 <211> 134  
 <212> PRT  
 <213> Homo sapiens

<400> 6266  
 Ala Arg Gly Pro Arg Gly Leu Ala Pro Pro Arg Pro Ala Arg Pro Pro  
 1 5 10 15

Pro Gly Gly Met Ser Tyr Lys Pro Asn Leu Ala Ala His Met Pro Ala  
 20 25 30

Ala Ala Leu Asn Ala Ala Gly Ser Val His Ser Pro Ser Thr Ser Met  
 35 40 45

Ala Thr Ser Ser Gln Tyr Arg Gln Leu Leu Ser Asp Tyr Gly Pro Pro  
 50 55 60

## 5488

Ser Leu Gly Tyr Thr Gln Gly Thr Gly Asn Ser Gln Val Pro Gln Ser  
 65 70 75 80  
 Lys Tyr Ala Glu Leu Leu Ala Ile Ile Glu Glu Leu Gly Lys Glu Ile  
 85 90 95  
 Arg Pro Thr Tyr Ala Gly Ser Lys Ser Ala Met Glu Arg Leu Lys Arg  
 100 105 110  
 Gly Ile Ile His Ala Arg Gly Leu Val Arg Glu Cys Leu Ala Glu Thr  
 115 120 125  
 Glu Arg Asn Ala Arg Ser  
 130

&lt;210&gt; 6267

&lt;211&gt; 201

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (119)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6267

Xaa Xaa Leu Thr Lys Gly Asn Lys Ser Xaa Xaa Leu His Arg Gly Val  
 1 5 10 15

## 5489

Gly Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr  
                   20                  25                  30  
 Ser Ile Gly Thr Gly Gly Phe Ala Lys Val Lys Leu Ala Cys His Ile  
           35                  40                  45  
 Leu Thr Gly Glu Met Val Ala Ile Lys Ile Met Asp Lys Asn Thr Leu  
       50                  55                  60  
 Gly Ser Asp Leu Pro Arg Ile Lys Thr Glu Ile Glu Ala Leu Lys Asn  
   65                  70                  75                  80  
 Leu Arg His Gln His Ile Cys Gln Leu Tyr His Val Leu Glu Thr Ala  
                   85                  90                  95  
 Asn Lys Ile Phe Met Val Leu Glu Tyr Cys Pro Gly Gly Glu Leu Phe  
           100                  105                  110  
 Asp Tyr Ile Ile Ser Gln Xaa Arg Leu Ser Glu Glu Glu Thr Arg Val  
       115                  120                  125  
 Val Phe Arg Gln Ile Val Ser Ala Val Ala Tyr Val His Ser Gln Gly  
       130                  135                  140  
 Tyr Ala His Arg Asp Leu Lys Pro Glu Asn Leu Leu Phe Asp Glu Tyr  
   145                  150                  155                  160  
 His Lys Leu Lys Leu Ile Asp Phe Gly Leu Cys Ala Lys Pro Lys Gly  
                   165                  170                  175  
 Asn Lys Asp Tyr His Leu Gln Thr Cys Cys Gly Ser Leu Ala Tyr Ala  
           180                  185                  190  
 Ala Pro Glu Leu Ile Gln Gly Lys Ser  
       195                  200

&lt;210&gt; 6268

&lt;211&gt; 355

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (233)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5490

&lt;222&gt; (264)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (302)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (305)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (313)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (344)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (352)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6268

Arg	Pro	Thr	Arg	Pro	Val	Gln	Tyr	Glu	Leu	Trp	Ala	Ala	Leu	Pro	Gly
1				5					10					15	

Ala	Ser	Gly	Val	Ala	Leu	Ala	Cys	Cys	Phe	Val	Ala	Ala	Ala	Val	Ala
			20					25					30		

Leu	Arg	Trp	Ser	Gly	Arg	Arg	Thr	Ala	Val	Ala	Arg	Trp	Ser	Gly	Arg
		35					40					45			

Asp	Arg	Gly	Ser	Glu	Arg	Ala	Trp	Arg	Thr	Trp	Thr	Gly	Arg	Arg	Thr
		50				55					60				

Phe	Arg	Leu	Gln	Asn	Pro	Asp	Leu	Asp	Ser	Glu	Ala	Leu	Leu	Ala	Leu
65					70					75					80

Pro	Leu	Pro	Gln	Leu	Val	Gln	Lys	Leu	His	Ser	Arg	Glu	Leu	Ala	Pro
				85					90					95	

Glu	Ala	Val	Leu	Phe	Thr	Tyr	Val	Gly	Lys	Ala	Trp	Glu	Val	Asn	Lys
			100					105					110		

Gly	Thr	Asn	Cys	Val	Thr	Ser	Tyr	Leu	Ala	Asp	Cys	Glu	Thr	Gln	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 5491

115	120	125
Ser Gln Ala Pro Arg Gln Gly Leu Leu Tyr Gly Val Pro Val Ser Leu		
130	135	140
Lys Glu Cys Phe Thr Tyr Lys Gly Gln Asp Ser Thr Leu Gly Leu Ser		
145	150	155
Leu Asn Glu Gly Val Pro Ala Glu Cys Asp Ser Val Val Val His Val		
165	170	175
Leu Lys Leu Gln Gly Ala Val Pro Phe Val His Thr Asn Val Pro Gln		
180	185	190
Ser Met Phe Ser Tyr Asp Cys Ser Asn Pro Leu Phe Gly Gln Thr Val		
195	200	205
Asn Pro Trp Lys Ser Ser Lys Ser Pro Gly Gly Ser Ser Gly Gly Glu		
210	215	220
Gly Ala Leu Ile Gly Ser Gly Gly Xaa Pro Leu Gly Leu Gly Thr Asp		
225	230	235
Ile Gly Gly Ser Ile Arg Phe Pro Ser Ser Phe Cys Gly Ile Cys Gly		
245	250	255
Leu Lys Pro Thr Gly Asn Pro Xaa Gln Cys Val Ser Pro Trp Ala Pro		
260	265	270
Trp Pro Gly Thr Trp Lys Ser Leu Ala Leu Val Pro Ala Asn Pro Ala		
275	280	285
Cys Ala Lys Asp Met Phe Pro Leu Gly Pro Asn Val Pro Xaa Leu Pro		
290	295	300
Xaa Lys Lys Arg Ser Thr Pro Ser Xaa Asn Pro Cys Val Trp Gly Thr		
305	310	315
Met Arg Ile Asp Asn Tyr Thr Met Pro Ser Arg His Glu Ala Ala Leu		
325	330	335
Leu Gly Asn Lys Gln Ser Leu Xaa Trp Gly Thr Pro Ala Ser Cys Xaa		
340	345	350
Ser Lys Thr		
355		

&lt;210&gt; 6269

&lt;211&gt; 133

## 5492

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6269

Xaa	Lys	Leu	Thr	Leu	Thr	Lys	Gly	Asn	Lys	Ser	Trp	Ser	Ser	Thr	Ala
1				5					10					15	

Val	Xaa	Ser	Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser
			20					25					30		

Ala	Arg	Gly	Thr	Phe	Phe	Lys	Met	Glu	Leu	Phe	Glu	Gly	Met	Arg	Glu
		35					40					45			

Ser	Thr	Lys	Ile	Ser	Ser	Leu	Leu	Ala	Glu	Leu	Glu	Ala	Ile	Gln	Arg
	50					55					60				

Asn	Ser	Ala	Ser	Gln	Lys	Ser	Val	Ile	Val	Ser	Gln	Trp	Thr	Asn	Met
65					70					75				80	

Leu	Lys	Val	Val	Ala	Leu	His	Leu	Lys	Lys	His	Gly	Leu	Thr	Tyr	Ala
				85					90					95	

Thr	Ile	Asp	Gly	Ser	Val	Asn	Pro	Lys	Gln	Arg	Met	Asp	Leu	Val	Glu
		100						105					110		

Ala	Phe	Asn	His	Ser	Arg	Gly	Pro	Gln	Val	Met	Leu	Ile	Ser	Leu	Leu
		115					120					125			

Ala	Gly	Val	Leu	Val
				130

&lt;210&gt; 6270

&lt;211&gt; 466

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6270

Asn	Thr	Val	Met	Gly	Arg	Lys	Lys	Lys	Lys	Gln	Leu	Lys	Pro	Trp	Cys
1				5					10					15	



## 5493

Trp Tyr Cys Asn Arg Asp Phe Asp Asp Glu Lys Ile Leu Ile Gln His  
                   20                  25                  30  
 Gln Lys Ala Lys His Phe Lys Cys His Ile Cys His Lys Lys Leu Tyr  
           35                  40                  45  
 Thr Gly Pro Gly Leu Ala Ile His Cys Met Gln Val His Lys Glu Thr  
       50                  55                  60  
 Ile Asp Ala Val Pro Asn Ala Ile Pro Gly Arg Thr Asp Ile Glu Leu  
   65                  70                  75                  80  
 Glu Ile Tyr Gly Met Glu Gly Ile Pro Glu Lys Asp Met Asp Glu Arg  
                   85                  90                  95  
 Arg Arg Leu Leu Glu Gln Lys Thr Gln Glu Ser Gln Lys Lys Lys Gln  
           100                  105                  110  
 Gln Asp Asp Ser Asp Glu Tyr Asp Asp Asp Asp Ser Ala Ala Ser Thr  
           115                  120                  125  
 Ser Phe Gln Pro Gln Pro Val Gln Pro Gln Gln Gly Tyr Ile Pro Pro  
       130                  135                  140  
 Met Ala Gln Pro Gly Leu Pro Pro Val Pro Gly Ala Pro Gly Met Pro  
   145                  150                  155                  160  
 Pro Gly Ile Pro Pro Leu Met Pro Gly Val Pro Pro Leu Met Pro Gly  
                   165                  170                  175  
 Met Pro Pro Val Met Pro Gly Met Pro Pro Gly Leu His His Gln Arg  
           180                  185                  190  
 Lys Tyr Thr Gln Ser Phe Cys Gly Glu Asn Ile Met Met Pro Met Gly  
           195                  200                  205  
 Gly Met Met Pro Pro Gly Pro Gly Ile Pro Pro Leu Met Pro Gly Met  
       210                  215                  220  
 Pro Pro Gly Met Pro Pro Pro Val Pro Arg Pro Gly Ile Pro Pro Met  
   225                  230                  235                  240  
 Thr Gln Ala Gln Ala Val Ser Ala Pro Gly Ile Leu Asn Arg Pro Pro  
           245                  250                  255  
 Ala Pro Thr Ala Thr Val Pro Ala Pro Gln Pro Pro Val Thr Lys Pro  
           260                  265                  270  
 Leu Phe Pro Ser Ala Gly Gln Ala Gln Ala Ala Val Gln Gly Pro Val  
       275                  280                  285

## 5494

Gly Thr Asp Phe Lys Pro Leu Asn Ser Thr Pro Ala Thr Thr Thr Glu  
 290 295 300  
 Pro Pro Lys Pro Thr Phe Pro Ala Tyr Thr Gln Ser Thr Ala Ser Thr  
 305 310 315 320  
 Thr Ser Thr Thr Asn Ser Thr Ala Ala Lys Pro Ala Ala Ser Ile Thr  
 325 330 335  
 Ser Lys Pro Ala Thr Leu Thr Thr Thr Ser Ala Thr Ser Lys Leu Ile  
 340 345 350  
 His Pro Asp Glu Asp Ile Ser Leu Glu Glu Arg Arg Ala Gln Leu Pro  
 355 360 365  
 Lys Tyr Gln Arg Asn Leu Pro Arg Pro Gly Gln Ala Pro Ile Gly Asn  
 370 375 380  
 Pro Pro Val Gly Pro Ile Gly Gly Met Met Pro Pro Gln Pro Gly Ile  
 385 390 395 400  
 Pro Gln Gln Gln Gly Met Arg Pro Pro Met Pro Pro His Gly Gln Tyr  
 405 410 415  
 Gly Gly His His Gln Gly Met Pro Gly Tyr Leu Pro Gly Ala Met Pro  
 420 425 430  
 Pro Tyr Gly Gln Gly Pro Pro Met Val Pro Pro Tyr Gln Gly Gly Pro  
 435 440 445  
 Pro Arg Pro Pro Met Gly Met Arg Pro Pro Val Met Ser Gln Gly Gly  
 450 455 460  
 Arg Tyr  
 465

&lt;210&gt; 6271

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5495

&lt;222&gt; (110)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (111)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6271

His	Thr	Ala	Leu	Ser	Ala	Phe	Thr	Ala	Ile	Pro	Ala	Val	Leu	Ala	Ala
1				5					10					15	

Pro	Ala	Met	Gly	Leu	Glu	Leu	Phe	Leu	Asp	Leu	Val	Ser	Gln	Pro	Ser
			20					25					30		

Arg	Ala	Val	Tyr	Ile	Phe	Ala	Lys	Lys	Asn	Gly	Ile	Pro	Leu	Glu	Leu
		35					40					45			

Arg	Thr	Val	Asp	Leu	Val	Lys	Gly	Gly	Pro	Ser	Pro	Phe	Pro	Arg	Val
	50					55					60				

Ser	Thr	Asn	Pro	Val	Xaa	Pro	Gln	Ala	Pro	Ala	Cys	Ser	Ala	Leu	Ser
65					70					75					80

Val	Ser	Pro	Pro	His	Ser	Pro	Ser	Pro	Pro	Pro	Ala	Ala	Ser	Ala	Thr
				85					90					95	

Arg	Glu	Cys	Cys	Gly	Leu	Ser	Gly	Leu	Glu	Gly	Ser	Gln	Xaa	Xaa	
		100						105					110		

&lt;210&gt; 6272

&lt;211&gt; 670

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6272

Val	Pro	Ser	Ala	Ser	Gln	Val	Arg	Ala	Ser	Leu	Pro	Glu	Pro	Arg	Asn
1				5					10					15	

Ser	Ala	Ala	Ala	Met	Ala	Ser	Asn	Met	Asp	Arg	Glu	Met	Ile	Leu	Ala
		20						25					30		

Asp	Phe	Gln	Ala	Cys	Thr	Gly	Ile	Glu	Asn	Ile	Asp	Glu	Ala	Ile	Thr
		35					40					45			

Leu	Leu	Glu	Gln	Asn	Asn	Trp	Asp	Leu	Val	Ala	Ala	Ile	Asn	Gly	Val
	50					55					60				

Ile	Pro	Gln	Glu	Asn	Gly	Ile	Leu	Gln	Ser	Glu	Tyr	Gly	Gly	Glu	Thr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 5496

65		70		75		80									
Ile	Pro	Gly	Pro	Ala	Phe	Asn	Pro	Ala	Ser	His	Pro	Ala	Ser	Ala	Pro
				85					90					95	
Thr	Ser	Ser	Ser	Ser	Ser	Ala	Phe	Arg	Pro	Val	Met	Pro	Ser	Arg	Gln
			100					105					110		
Ile	Val	Glu	Arg	Gln	Pro	Arg	Met	Leu	Asp	Phe	Arg	Val	Glu	Tyr	Arg
		115					120					125			
Asp	Arg	Asn	Val	Asp	Val	Val	Leu	Glu	Asp	Thr	Cys	Thr	Val	Gly	Glu
		130				135					140				
Ile	Lys	Gln	Ile	Leu	Glu	Asn	Glu	Leu	Gln	Ile	Pro	Val	Ser	Lys	Met
145					150					155					160
Leu	Leu	Lys	Gly	Trp	Lys	Thr	Gly	Asp	Val	Glu	Asp	Ser	Thr	Val	Leu
			165					170						175	
Lys	Ser	Leu	His	Leu	Pro	Lys	Asn	Asn	Ser	Leu	Tyr	Val	Leu	Thr	Pro
			180					185					190		
Asp	Leu	Pro	Pro	Pro	Ser	Ser	Ser	Ser	His	Ala	Gly	Ala	Leu	Gln	Glu
		195					200					205			
Ser	Leu	Asn	Gln	Asn	Phe	Met	Leu	Ile	Ile	Thr	His	Arg	Glu	Val	Gln
		210				215					220				
Arg	Glu	Tyr	Asn	Leu	Asn	Phe	Ser	Gly	Ser	Ser	Thr	Ile	Gln	Glu	Val
225					230					235					240
Lys	Arg	Asn	Val	Tyr	Asp	Leu	Thr	Ser	Ile	Pro	Val	Arg	His	Gln	Leu
			245						250					255	
Trp	Glu	Gly	Trp	Pro	Thr	Ser	Ala	Thr	Asp	Asp	Ser	Met	Cys	Leu	Ala
			260					265					270		
Glu	Ser	Gly	Leu	Ser	Tyr	Pro	Cys	His	Arg	Leu	Thr	Val	Gly	Arg	Arg
		275					280					285			
Ser	Ser	Pro	Ala	Gln	Thr	Arg	Glu	Gln	Ser	Glu	Glu	Gln	Ile	Thr	Asp
		290				295					300				
Val	His	Met	Val	Ser	Asp	Ser	Asp	Gly	Asp	Asp	Phe	Glu	Asp	Ala	Thr
305					310					315					320
Glu	Phe	Gly	Val	Asp	Asp	Gly	Glu	Val	Phe	Gly	Met	Ala	Ser	Ser	Ala
			325						330					335	
Leu	Arg	Lys	Ser	Pro	Met	Met	Pro	Glu	Asn	Ala	Glu	Asn	Glu	Gly	Asp

## 5497

340	345	350
Ala Leu Leu Gln Phe Thr Ala Glu Phe Ser Ser Arg Tyr Gly Asp Cys		
355	360	365
His Pro Val Phe Phe Ile Gly Ser Leu Glu Ala Ala Phe Gln Glu Ala		
370	375	380
Phe Tyr Val Lys Ala Arg Asp Arg Lys Leu Leu Ala Ile Tyr Leu His		
385	390	395
His Asp Glu Ser Val Leu Thr Asn Val Phe Cys Ser Gln Met Leu Cys		
405	410	415
Ala Glu Ser Ile Val Ser Tyr Leu Ser Gln Asn Phe Ile Thr Trp Ala		
420	425	430
Trp Asp Leu Thr Lys Asp Ser Asn Arg Ala Arg Phe Leu Thr Met Cys		
435	440	445
Asn Arg His Phe Gly Ser Val Val Ala Gln Thr Ile Arg Thr Gln Lys		
450	455	460
Thr Asp Gln Phe Pro Leu Phe Leu Ile Ile Met Gly Lys Arg Ser Ser		
465	470	475
Asn Glu Val Leu Asn Val Ile Gln Gly Asn Thr Thr Val Asp Glu Leu		
485	490	495
Met Met Arg Leu Met Ala Ala Met Glu Ile Phe Thr Ala Gln Gln Gln		
500	505	510
Glu Asp Ile Lys Asp Glu Asp Glu Arg Glu Ala Arg Glu Asn Val Lys		
515	520	525
Arg Glu Gln Asp Glu Ala Tyr Arg Leu Ser Leu Glu Ala Asp Arg Ala		
530	535	540
Lys Arg Glu Ala His Glu Arg Glu Met Ala Glu Gln Phe Arg Leu Glu		
545	550	555
Gln Ile Arg Lys Glu Gln Glu Glu Glu Arg Glu Ala Ile Arg Leu Ser		
565	570	575
Leu Glu Gln Ala Leu Pro Pro Glu Pro Lys Glu Glu Asn Ala Glu Pro		
580	585	590
Val Ser Lys Leu Arg Ile Arg Thr Pro Ser Gly Glu Phe Leu Glu Arg		
595	600	605
Arg Phe Leu Ala Ser Asn Lys Leu Gln Ile Val Phe Asp Phe Val Ala		

## 5498

610                                  615                                  620  
 Ser Lys Gly Phe Pro Trp Asp Glu Tyr Lys Leu Leu Ser Thr Phe Pro  
 625                                  630                                  635                                  640  
 Arg Arg Asp Val Thr Gln Leu Asp Pro Asn Lys Ser Leu Leu Glu Val  
                                 645                                  650                                  655  
 Lys Leu Phe Pro Gln Glu Thr Leu Phe Leu Glu Ala Lys Glu  
                                 660                                  665                                  670

<210> 6273  
 <211> 496  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6273  
 Pro Thr Arg Xaa Pro Thr Arg Pro Ala Arg Gly Trp Glu Ala Ile Thr  
   1                                  5                                  10                                  15  
 Tyr Leu Ala Leu Arg Lys Lys Thr Lys Ala Ser Met His Ser Phe Pro  
                                 20                                  25                                  30  
 Pro Leu Leu Leu Leu Leu Phe Trp Gly Val Val Ser His Ser Phe Pro  
                                 35                                  40                                  45  
 Ala Thr Leu Glu Thr Gln Glu Gln Asp Val Asp Leu Val Gln Lys Tyr  
                                 50                                  55                                  60  
 Leu Glu Lys Tyr Tyr Asn Leu Lys Asn Asp Gly Arg Gln Val Glu Lys  
   65                                  70                                  75                                  80  
 Arg Arg Asn Ser Gly Pro Val Val Glu Lys Leu Lys Gln Met Gln Glu  
                                 85                                  90                                  95  
 Phe Phe Gly Leu Lys Val Thr Gly Lys Pro Asp Ala Glu Thr Leu Lys  
                                 100                                  105                                  110  
 Val Met Lys Gln Pro Arg Cys Gly Val Pro Asp Val Ala Gln Phe Val  
                                 115                                  120                                  125  
 Leu Thr Glu Gly Asn Pro Arg Trp Glu Gln Thr His Leu Thr Tyr Arg  
   130                                  135                                  140

## 5499

Ile	Glu	Asn	Tyr	Thr	Pro	Asp	Leu	Pro	Arg	Ala	Asp	Val	Asp	His	Ala	145	150	155	160
Ile	Glu	Lys	Ala	Phe	Gln	Leu	Trp	Ser	Asn	Val	Thr	Pro	Leu	Thr	Phe	165	170	175	
Thr	Lys	Val	Ser	Glu	Gly	Gln	Ala	Asp	Ile	Met	Ile	Ser	Phe	Val	Arg	180	185	190	
Gly	Asp	His	Arg	Asp	Asn	Ser	Pro	Phe	Asp	Gly	Pro	Gly	Gly	Asn	Leu	195	200	205	
Ala	His	Ala	Phe	Gln	Pro	Gly	Pro	Gly	Ile	Gly	Gly	Asp	Ala	His	Phe	210	215	220	
Asp	Glu	Asp	Glu	Arg	Trp	Thr	Asn	Asn	Phe	Arg	Glu	Tyr	Asn	Leu	His	225	230	235	240
Arg	Val	Ala	Ala	His	Glu	Leu	Gly	His	Ser	Leu	Gly	Leu	Ser	His	Ser	245	250	255	
Thr	Asp	Ile	Gly	Ala	Leu	Met	Tyr	Pro	Ser	Tyr	Thr	Phe	Ser	Gly	Asp	260	265	270	
Val	Gln	Leu	Ala	Gln	Asp	Asp	Ile	Asp	Gly	Ile	Gln	Ala	Ile	Tyr	Gly	275	280	285	
Arg	Ser	Gln	Asn	Pro	Val	Gln	Pro	Ile	Gly	Pro	Gln	Thr	Pro	Lys	Ala	290	295	300	
Cys	Asp	Ser	Lys	Leu	Thr	Phe	Asp	Ala	Ile	Thr	Thr	Ile	Arg	Gly	Glu	305	310	315	320
Val	Met	Phe	Phe	Lys	Asp	Arg	Phe	Tyr	Met	Arg	Thr	Asn	Pro	Phe	Tyr	325	330	335	
Pro	Glu	Val	Glu	Leu	Asn	Phe	Ile	Ser	Val	Phe	Trp	Pro	Gln	Leu	Pro	340	345	350	
Asn	Gly	Leu	Glu	Ala	Ala	Tyr	Glu	Phe	Ala	Asp	Arg	Asp	Glu	Val	Arg	355	360	365	
Phe	Phe	Lys	Gly	Asn	Lys	Tyr	Trp	Ala	Val	Gln	Gly	Gln	Asn	Val	Leu	370	375	380	
His	Gly	Tyr	Pro	Lys	Asp	Ile	Tyr	Ser	Ser	Phe	Gly	Phe	Pro	Arg	Thr	385	390	395	400
Val	Lys	His	Ile	Asp	Ala	Ala	Leu	Ser	Glu	Glu	Asn	Thr	Gly	Lys	Thr	405	410	415	

## 5500

Tyr Phe Phe Val Ala Asn Lys Tyr Trp Arg Tyr Asp Glu Tyr Lys Arg  
420 425 430

Ser Met Asp Pro Gly Tyr Pro Lys Met Ile Ala His Asp Phe Pro Gly  
435 440 445

Ile Gly His Lys Val Asp Ala Val Phe Met Lys Asp Gly Phe Phe Tyr  
450 455 460

Phe Phe His Gly Thr Arg Gln Tyr Lys Phe Asp Pro Lys Thr Lys Arg  
465 470 475 480

Ile Leu Thr Leu Gln Lys Ala Asn Ser Trp Phe Asn Cys Arg Lys Asn  
485 490 495

<210> 6274

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6274



## 5501

Arg Leu Pro Arg Gln Lys Ser Arg Xaa Lys Leu Ser Xaa Ser His Val  
 1 5 10 15  
 Thr Gln Xaa Arg Leu Ile Lys Phe Phe Xaa Leu Phe Pro Ile Ile Phe  
 20 25 30  
 Xaa Met Ser Lys Leu Thr Lys Arg Ser Lys Gly Phe Leu Gly Leu Leu  
 35 40 45  
 Thr Ser Ser Val Glu Ile Leu Val Leu Cys Gly Gln Gly Lys Ala Lys  
 50 55 60  
 Ala Phe Leu Phe Ser Leu Cys Tyr Leu Glu Asp Arg Lys Thr Ser Cys  
 65 70 75 80  
 Leu His Pro Leu Ala Val Cys Arg Ile Thr Leu Ser Leu Arg Tyr  
 85 90 95

<210> 6275  
 <211> 135  
 <212> PRT  
 <213> Homo sapiens

<400> 6275  
 Arg Pro Pro Ile Ser Ser Ala Gly His Leu Pro Gly Val Cys Lys Val  
 1 5 10 15  
 Ser Thr Asp Leu Leu Arg Glu Gly Ala Pro Ile Glu Pro Asp Pro Pro  
 20 25 30  
 Val Ser His Trp Lys Pro Glu Ala Val Gln Tyr Tyr Glu Asp Gly Ala  
 35 40 45  
 Arg Ile Glu Ala Ala Phe Arg Asn Tyr Ile His Arg Ala Asp Ala Arg  
 50 55 60  
 Gln Glu Glu Asp Ser Tyr Glu Ile Phe Ile Cys His Ala Asn Val Ile  
 65 70 75 80  
 Arg Tyr Ile Val Cys Arg Ala Leu Gln Phe Pro Pro Glu Gly Trp Leu  
 85 90 95  
 Arg Leu Ser Leu Asn Asn Gly Ser Ile Thr His Leu Val Ile Arg Pro  
 100 105 110  
 Asn Gly Arg Val Ala Leu Arg Thr Leu Gly Asp Thr Gly Phe Met Pro  
 115 120 125  
 Pro Asp Lys Ile Thr Arg Ser

## 5502

130

135

&lt;210&gt; 6276

&lt;211&gt; 159

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6276

Thr Ser His Ala Arg Phe Gln Ala Leu His Ala Thr Gly Ser Val Leu  
 1 5 10 15

Ala Ala Ser Ser Leu Ser Trp Asn Ser Ser Ser Gln Leu Leu Leu Pro  
 20 25 30

Glu Phe Gln Gly Glu Pro Pro Ser Ala Pro Ser Glu Tyr Ala Gly Leu  
 35 40 45

Val Val Arg Thr Val Leu Glu Pro Val Leu Gln Gly Leu Gln Gly Leu  
 50 55 60

Pro Pro Gln Ala Gln Ala Pro Ala Leu Gly Gln Ala Leu Thr Ala Ile  
 65 70 75 80

Val Gly Ala Trp Leu Asp His Ile Leu Thr His Gly Ile Arg Phe Arg  
 85 90 95

Ser Gly Val Lys Val Glu Val Ala Gly Gly Glu Trp Asn Trp Glu Lys  
 100 105 110

Glu Gly Asp Lys Trp Glu Arg Gln Glu Gly Gln Val Ala Ile Leu Tyr  
 115 120 125

Leu Cys Leu Gln Pro Ala Gly Ser Ala Ala Ala Gln Thr Arg Leu Trp  
 130 135 140

Ser Gly Gln Gly Val Ala Gly Arg Gly Ala Val Glu Pro Val Pro  
 145 150 155

&lt;210&gt; 6277

&lt;211&gt; 87

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5503

&lt;400&gt; 6277

Ala Gln Gly Ala Ala Trp Xaa Cys Gln Ser Pro Gly Pro Arg Ala Leu  
 1 5 10 15

Leu Glu Arg Arg Gln Thr Glu Ala Ala Gly Pro Ala Ser Arg Arg Arg  
 20 25 30

Gly Glu Met Ser Asp Cys Tyr Thr Glu Leu Glu Lys Ala Val Ile Val  
 35 40 45

Leu Val Glu Asn Phe Tyr Lys Tyr Val Ser Lys Tyr Ser Leu Val Lys  
 50 55 60

Asn Lys Ile Ser Lys Ser Ser Phe Arg Glu Met Leu Gln Lys Glu Leu  
 65 70 75 80

Asn His Met Leu Ser His Cys  
 85

&lt;210&gt; 6278

&lt;211&gt; 383

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6278

His Ala Ser Ala His Ala Ser Gly Ala Leu Pro Gly Leu Thr Ala Thr  
 1 5 10 15

Pro Glu Ala Met Leu Arg Phe Leu Pro Asp Leu Ala Phe Ser Phe Leu  
 20 25 30

Leu Ile Leu Ala Leu Gly Gln Ala Val Gln Phe Gln Glu Tyr Val Phe  
 35 40 45

Leu Gln Phe Leu Gly Leu Asp Lys Ala Pro Ser Pro Gln Lys Phe Gln  
 50 55 60

Pro Val Pro Tyr Ile Leu Lys Lys Ile Phe Gln Asp Arg Glu Ala Ala  
 65 70 75 80

Ala Thr Thr Gly Val Ser Arg Asp Leu Cys Tyr Val Lys Glu Leu Gly  
 85 90 95

Val Arg Gly Asn Val Leu Arg Phe Leu Pro Asp Gln Gly Phe Phe Leu  
 100 105 110

Tyr Pro Lys Lys Ile Ser Gln Ala Ser Ser Cys Leu Gln Lys Leu Leu  
 115 120 125

## 5504

Tyr Phe Asn Leu Ser Ala Ile Lys Glu Arg Glu Gln Leu Thr Leu Ala  
 130 135 140  
 Gln Leu Gly Leu Asp Leu Gly Pro Asn Ser Tyr Tyr Asn Leu Gly Pro  
 145 150 155 160  
 Glu Leu Glu Leu Ala Leu Phe Leu Val Gln Glu Pro His Val Trp Gly  
 165 170 175  
 Gln Thr Thr Pro Lys Pro Gly Lys Met Phe Val Leu Arg Ser Val Pro  
 180 185 190  
 Trp Pro Gln Gly Ala Val His Phe Asn Leu Leu Asp Val Ala Lys Asp  
 195 200 205  
 Trp Asn Asp Asn Pro Arg Lys Asn Phe Gly Leu Phe Leu Glu Ile Leu  
 210 215 220  
 Val Lys Glu Asp Arg Asp Ser Gly Val Asn Phe Gln Pro Glu Asp Thr  
 225 230 235 240  
 Cys Ala Arg Leu Arg Cys Ser Leu His Ala Ser Leu Leu Val Val Thr  
 245 250 255  
 Leu Asn Pro Asp Gln Cys His Pro Ser Arg Lys Arg Arg Ala Ala Ile  
 260 265 270  
 Pro Val Pro Lys Leu Ser Cys Lys Asn Leu Cys His Arg His Gln Leu  
 275 280 285  
 Phe Ile Asn Phe Arg Asp Leu Gly Trp His Lys Trp Ile Ile Ala Pro  
 290 295 300  
 Lys Gly Phe Met Ala Asn Tyr Cys His Gly Glu Cys Pro Phe Ser Leu  
 305 310 315 320  
 Thr Ile Ser Leu Asn Ser Ser Asn Tyr Ala Phe Met Gln Ala Leu Met  
 325 330 335  
 His Ala Val Asp Pro Glu Ile Pro Gln Ala Val Cys Ile Pro Thr Lys  
 340 345 350  
 Leu Ser Pro Ile Ser Met Leu Tyr Gln Asp Asn Asn Asp Asn Val Ile  
 355 360 365  
 Leu Arg His Tyr Glu Asp Met Val Val Asp Glu Cys Gly Cys Gly  
 370 375 380

## 5505

&lt;210&gt; 6279

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6279

Arg Gln Arg Arg Lys Gly Gly Gly Asn Asp Ser Arg Pro Lys Trp Pro  
 1 5 10 15

His Leu Glu Asp Thr Ser Asp Asp Asn His Cys Tyr Val Cys Ala Ile  
 20 25 30

Leu Phe Asn Ser Ala Val Tyr Val Val Asp Lys Leu Tyr Glu Ile Ser  
 35 40 45

Ser Leu Ser Arg Tyr Leu Glu Val Leu Asp Val Phe Lys Ser Gly Ser  
 50 55 60

Arg Ile Thr Leu Cys Lys  
 65 70

&lt;210&gt; 6280

&lt;211&gt; 112

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6280

Gly Thr Thr Asn Ile Phe Tyr Val Val Asn Ser Ile Lys Leu Ala Ser  
 1 5 10 15

Phe Gly Lys Lys Lys Lys Lys Lys Asn Ser Arg Gly Gly Pro Xaa  
 20 25 30

Pro Asn Ser Pro Tyr Ser Glu Ser Xaa Tyr Asn Ser Leu Ala Val Val  
 35 40 45

Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg  
 50 55 60

## 5506

Leu Ala Ala His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala  
 65 70 75 80

Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp  
 85 90 95

Gln Ile Val Ser Val Asn Ile Leu Leu Lys Phe Ala Leu Asn Phe Cys  
 100 105 110

&lt;210&gt; 6281

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6281

Asn Leu Gly Thr Leu Lys Lys Glu Gln Asp Asn Ser Tyr Val Gln Gly  
 1 5 10 15

Thr Arg Glu Ile Thr Ile Arg Ser Gly Cys Leu Xaa Ala Arg Gln Asn  
 20 25 30

Arg Thr Ile Phe Leu Phe Phe Gln Lys Gln Ile Gly Glu Ile Ser Leu  
 35 40 45

Asn Ser Phe Ser Gln Gln Arg Thr Ala Trp Arg Lys Arg Val Cys Ser  
 50 55 60

&lt;210&gt; 6282

&lt;211&gt; 469

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6282

Val Arg Gly Leu Ser Gly Ser Cys Pro Gly Cys Ser Pro Leu Glu Pro  
 1 5 10 15

## 5507

Gly Ser Arg Gly Arg Gly Ala Ala Ala Trp Arg Ile Leu Arg Cys Arg  
 20 25 30  
 Arg Leu Pro Glu Pro Ser Pro Phe Leu Thr Gln Pro Asn Leu Ala Gln  
 35 40 45  
 Ser Gln Pro Pro Ala Pro Val Pro Val Thr Asp Pro Ser Val Thr Met  
 50 55 60  
 His Pro Ala Val Phe Leu Ser Leu Pro Asp Leu Arg Cys Ser Leu Leu  
 65 70 75 80  
 Leu Leu Val Thr Trp Val Phe Thr Pro Val Thr Thr Glu Ile Thr Ser  
 85 90 95  
 Leu Asp Thr Glu Asn Ile Asp Glu Ile Leu Asn Asn Ala Asp Val Ala  
 100 105 110  
 Leu Val Asn Phe Tyr Ala Asp Trp Cys Arg Phe Ser Gln Met Leu His  
 115 120 125  
 Pro Ile Phe Glu Glu Ala Ser Asp Val Ile Lys Glu Glu Phe Pro Asn  
 130 135 140  
 Glu Asn Gln Val Val Phe Ala Arg Val Asp Cys Asp Gln His Ser Asp  
 145 150 155 160  
 Ile Ala Gln Arg Tyr Arg Ile Ser Lys Tyr Pro Thr Leu Lys Leu Phe  
 165 170 175  
 Arg Asn Gly Met Met Met Lys Arg Glu Tyr Arg Gly Gln Arg Ser Val  
 180 185 190  
 Lys Ala Leu Ala Asp Tyr Ile Arg Gln Gln Lys Ser Asp Pro Ile Gln  
 195 200 205  
 Glu Ile Arg Asp Leu Ala Glu Ile Thr Thr Leu Asp Arg Ser Lys Arg  
 210 215 220  
 Asn Ile Ile Gly Tyr Phe Glu Gln Lys Asp Ser Asp Asn Tyr Arg Val  
 225 230 235 240  
 Phe Glu Arg Val Ala Asn Ile Leu His Asp Asp Cys Ala Phe Leu Ser  
 245 250 255  
 Ala Phe Gly Asp Val Ser Lys Pro Glu Arg Tyr Ser Gly Asp Asn Ile  
 260 265 270  
 Ile Tyr Lys Pro Pro Gly His Ser Ala Pro Asp Met Val Tyr Leu Gly  
 275 280 285

## 5508

Ala Met Thr Asn Phe Asp Val Thr Tyr Asn Trp Ile Gln Asp Lys Cys  
 290 295 300  
 Val Pro Leu Val Arg Glu Ile Thr Phe Glu Asn Gly Glu Glu Leu Thr  
 305 310 315 320  
 Glu Glu Gly Leu Pro Phe Leu Ile Leu Phe His Met Lys Glu Asp Thr  
 325 330 335  
 Glu Ser Leu Glu Ile Phe Gln Asn Glu Val Ala Arg Gln Leu Ile Ser  
 340 345 350  
 Glu Lys Gly Thr Ile Asn Phe Leu His Ala Asp Cys Asp Lys Phe Arg  
 355 360 365  
 His Pro Leu Leu His Ile Gln Lys Thr Pro Ala Asp Cys Pro Val Ile  
 370 375 380  
 Ala Ile Asp Ser Phe Arg His Met Tyr Val Phe Gly Asp Phe Lys Asp  
 385 390 395 400  
 Val Leu Ile Pro Gly Lys Leu Lys Gln Phe Val Phe Asp Leu His Ser  
 405 410 415  
 Gly Lys Leu His Arg Glu Phe His His Gly Pro Asp Pro Thr Asp Thr  
 420 425 430  
 Ala Pro Gly Glu Gln Ala Gln Asp Val Ala Ser Ser Pro Pro Glu Ser  
 435 440 445  
 Ser Phe Gln Lys Leu Ala Pro Ser Glu Tyr Arg Tyr Thr Leu Leu Arg  
 450 455 460  
 Asp Arg Asp Glu Leu  
 465

&lt;210&gt; 6283

&lt;211&gt; 172

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6283

Pro Arg Gly Ala Arg Gln Asp Thr Glu Ala Gly Ser Pro Trp Cys Ser  
 1 5 10 15

Tyr Arg His Gly Pro Leu Ser Ser Arg Gln Asp Cys Pro Arg Ala Trp  
 20 25 30

Gln Trp Arg Gln Pro His Arg Pro Gly His Leu Gln Asp Val Pro Pro



## 5509

35                                      40                                      45  
 Pro Gly Ile His Leu Gln Arg Leu Ser Gln Pro Gly Pro Arg Glu Ala  
     50                                      55                                      60  
 Leu Arg Glu Cys Pro Ser Gln Trp Pro Leu Ile Arg Gly Arg His Leu  
     65                                      70                                      75                                      80  
 Cys Gln Leu Arg Gln Pro Gln Gly Asp Ser Gly Pro Ala Gly Leu Gly  
                                     85                                      90                                      95  
 Arg Arg Asp Gly Pro Ser Ala Phe Cys His Pro Ala Arg Cys Cys His  
                                     100                                      105                                      110  
 Cys Ser Arg Gln Cys Pro Ala Pro Gly Leu Cys Ala Gly Gly Val Leu  
                                     115                                      120                                      125  
 Ala Ala Leu Pro Ser Ser Gly Leu Trp Glu Lys Gly Thr Met Asp Ala  
                                     130                                      135                                      140  
 Val Gly His Gly His Asp Gly Ala Ser Arg Arg Val Thr Leu Gly Leu  
     145                                      150                                      155                                      160  
 Gln Gly Asp Ile Lys Gly Gln Gly Cys Leu Leu Arg  
                                     165                                      170

&lt;210&gt; 6284

&lt;211&gt; 140

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (80)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6284

Pro Ser Pro Pro Ser Pro Pro Cys Asn Thr Thr Ala Leu Gly Ala Leu  
     1                                      5                                      10                                      15  
 Ser Thr Ser Ile Met Gly Pro Arg Pro His Ala Tyr Phe Gly Pro Glu  
                                     20                                      25                                      30  
 Ala Ser Ala Ser Lys Phe Lys Leu Leu His Pro Asp Phe Ile Ser Tyr  
                                     35                                      40                                      45  
 Leu Thr Glu Arg Phe Leu Lys Ser Lys Leu Ile Asn Thr His Phe Gly  
     50                                      55                                      60

## 5510

Asp Leu Tyr Met Pro Ser Thr Gly Ala Leu Met Leu Leu Thr Ala Xaa  
 65 70 75 80

His Thr Cys Asp Gln Val Ser Ala Tyr Gly Phe Ile Thr Ser Asn Tyr  
 85 90 95

Trp Lys Phe Ser Asp His Tyr Phe Glu Arg Lys Met Lys Pro Leu Ile  
 100 105 110

Phe Tyr Ala Asn His Asp Leu Ser Leu Glu Ala Ala Leu Trp Arg Asp  
 115 120 125

Leu His Lys Ala Gly Ile Leu Gln Leu Tyr Gln Arg  
 130 135 140

<210> 6285

<211> 137

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6285

Ile Tyr Cys Ala Leu Leu Gly Cys Met Asp Asp Tyr Thr Thr Asp Ser  
 1 5 10 15

Arg Gly Asp Val Gly Thr Trp Val Arg Lys Ala Ala Met Thr Ser Leu  
 20 25 30

Met Asp Leu Thr Leu Leu Leu Ala Arg Ser Gln Pro Glu Leu Ile Glu  
 35 40 45

## 5511

Ala His Thr Cys Glu Arg Ile Met Cys Cys Val Ala Gln Gln Ala Ser  
 50 55 60

Glu Lys Ile Asp Arg Phe Arg Ala His Ala Ala Ser Val Phe Leu Thr  
 65 70 75 80

Leu Leu His Phe Asp Ser Pro Pro Ile Pro His Val Pro His Arg Gly  
 85 90 95

Glu Leu Glu Lys Leu Phe Pro Arg Ser Asp Val Ala Ser Val Asn Trp  
 100 105 110

Ser Ala Xaa Ser Gln Ala Phe Pro Arg Ile Thr Xaa Pro Trp Val Ala  
 115 120 125

Thr Tyr Gly Xaa Xaa Ser Trp Trp Gly  
 130 135

<210> 6286

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6286

Arg Trp Gly Ser Lys Ser Pro Thr Ala Leu Pro Ile Phe Leu Glu Leu  
 1 5 10 15

Thr Ala Gly Val Leu Ala Phe Val Phe Lys Asp Trp Ile Lys Asp Gln  
 20 25 30

Leu Tyr Phe Phe Ile Xaa Asn Asn Ile Arg Ala Tyr Arg Asp Asp Ile  
 35 40 45

Asp Leu Gln Asn Leu Ile Asp Phe Thr Gln Glu Tyr Trp Gln Cys Cys  
 50 55 60

Gly Ala Phe Gly Ala Asp Asp Trp Asn Leu Asn Ile Tyr Phe Asn Cys  
 65 70 75 80

Thr Asp Ser Asn Ala Ser Arg Glu Arg Cys Gly Val Pro Phe Ser Cys  
 85 90 95

Cys Thr Lys Asp Pro Ala Glu Asp Val Ile Asn Thr Glu Cys Gly Tyr

## 5512

100 105 110  
 Gly Cys Gln Ala Lys Thr Arg Ser  
 115 120  
  
 <210> 6287  
 <211> 153  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 6287  
 Ser Thr His Ala Ser Gly Ser Pro Ser Pro Ala Asn His Gly Glu Leu  
 1 5 10 15  
 Gly Ser Val Pro Gly Gly Arg Arg Arg Gly Cys Gln Ala Pro Gly Thr  
 20 25 30  
 Arg Gly Val Cys Arg Met Pro Val Thr Arg Leu His Glu Gly Arg Phe  
 35 40 45  
 His Leu Arg His Arg His Arg His Gly Leu Trp Leu Ala Asp Val His  
 50 55 60  
 Ser Glu Glu Val Ser Ile Pro Phe Ala Val Glu Pro Pro Ser Gly Arg  
 65 70 75 80  
 Gly Cys Arg Leu Cys Gly Gln Leu Arg Gly Asp Glu Ser Gly Val Gly  
 85 90 95  
 Glu Met Gln Gln Pro Leu Ala Leu Pro Gly Asp Arg Ala Ala Pro Gln  
 100 105 110  
 Arg Gln Glu His Arg Ser Glu Lys Leu Gly Glu Leu Gln Gln Gly His  
 115 120 125  
 Arg Gly Leu Gly Ala Gly Gly Val Trp Asn Thr Ala Phe Met Pro Pro  
 130 135 140  
 Asp Pro Arg Pro Thr Leu Pro Thr Pro  
 145 150

<210> 6288  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 6288

## 5513

Ala Lys Ile Ala Lys Glu Glu Ile Phe Gly Pro Val Met Gln Ile Leu  
 1 5 10 15  
 Lys Phe Lys Thr Ile Glu Glu Val Val Gly Arg Ala Asn Asn Ser Thr  
 20 25 30  
 Tyr Gly Leu Ala Ala Ala Val Phe Thr Lys Asp Leu Asp Lys Ala Asn  
 35 40 45  
 Tyr Leu Ser Gln Ala Leu Gln Ala Gly Thr Val Trp Val Asn Cys Tyr  
 50 55 60  
 Asp Val Phe Gly Ala Gln Ser Pro Phe Gly Gly Tyr Lys Met Ser Gly  
 65 70 75 80  
 Ser Gly Arg Glu Leu Gly Glu Tyr Gly Leu Gln Ala Tyr Thr Glu Val  
 85 90 95  
 Lys Thr Val Thr Val Lys Val Pro Gln Lys Asn Ser  
 100 105

&lt;210&gt; 6289

&lt;211&gt; 341

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (225)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (231)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (291)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6289

Met Asn Thr Asn Trp Pro Ala Ser Val Gln Val Ser Val Asn Ala Thr  
 1 5 10 15

Pro Leu Thr Ile Glu Arg Gly Asp Asn Lys Thr Ser His Lys Pro Leu  
 20 25 30

Tyr Leu Lys His Val Cys Gln Pro Gly Arg Asn Thr Ile Gln Ile Thr

## 5514

35	40	45
Val Thr Ala Cys Cys Cys Ser His Leu Phe Val Leu Gln Leu Val His		
50	55	60
Arg Pro Ser Val Arg Ser Val Leu Gln Gly Leu Leu Lys Lys Arg Leu		
65	70	75
Leu Pro Ala Glu His Cys Ile Thr Lys Ile Lys Arg Asn Phe Ser Ser		
	85	90
Gly Thr Ile Pro Gly Thr Pro Gly Pro Asn Gly Glu Asp Gly Val Glu		
	100	105
Gln Thr Ala Ile Lys Val Ser Leu Lys Cys Pro Ile Thr Phe Arg Arg		
	115	120
Ile Gln Leu Pro Ala Arg Gly His Asp Cys Arg His Ile Gln Cys Phe		
	130	135
Asp Leu Glu Ser Tyr Leu Gln Leu Asn Cys Glu Arg Gly Thr Trp Arg		
	145	150
Cys Pro Val Cys Asn Lys Thr Ala Leu Leu Glu Gly Leu Glu Val Asp		
	165	170
Gln Tyr Met Leu Gly Ile Leu Ile Tyr Ile Gln Asn Ser Asp Tyr Glu		
	180	185
Glu Ile Thr Ile Asp Pro Thr Cys Ser Trp Lys Pro Val Pro Val Lys		
	195	200
Pro Asp Met His Ile Lys Glu Glu Pro Asp Gly Pro Ala Leu Lys Arg		
	210	215
Xaa Arg Thr Val Ser Pro Xaa His Val Leu Met Pro Ser Val Met Glu		
	225	230
Met Ile Ala Ala Leu Gly Pro Gly Ala Ala Pro Phe Ala Pro Leu Gln		
	245	250
Pro Pro Ser Val Pro Pro Pro Ala Ser Arg Gln Ser Leu Gly Gln Ala		
	260	265
Ser Leu Gly Pro Thr Gly Glu Leu Ala Phe Ser Pro Ala Thr Gly Val		
	275	280
Met Gly Xaa Pro Ser Met Ser Gly Ala Gly Glu Ala Pro Glu Pro Ala		
	290	295
Leu Asp Leu Leu Pro Glu Leu Thr Asn Pro Asp Glu Leu Leu Ser Tyr		
		300

5515

[illegible]

<210> 6290

<211> 235

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

&lt;221&gt; SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

&lt;221&gt; SITE

$\langle 222 \rangle$  (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$  (214)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

<222> (229)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$ 

<221> SITE

 $\langle 222 \rangle$  (233)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6290

## 5516

Ala Val Leu Cys Pro Ser Xaa Pro Cys Gln Xaa Pro Thr Gln Pro Pro  
 1 5 10 15  
 Gly Ala Cys Cys Pro Ser Cys Asp Ser Cys Thr Tyr His Ser Gln Val  
 20 25 30  
 Tyr Ala Asn Gly Gln Asn Phe Thr Asp Ala Asp Ser Pro Cys His Ala  
 35 40 45  
 Cys His Cys Gln Asp Gly Thr Val Thr Cys Ser Leu Val Asp Cys Pro  
 50 55 60  
 Xaa Thr Thr Cys Ala Arg Pro Gln Ser Gly Pro Gly Gln Cys Cys Pro  
 65 70 75 80  
 Arg Cys Pro Asp Cys Ile Leu Glu Glu Glu Val Phe Val Asp Gly Glu  
 85 90 95  
 Ser Phe Ser His Pro Arg Asp Pro Cys Gln Glu Cys Arg Cys Gln Glu  
 100 105 110  
 Gly His Ala His Cys Gln Pro Arg Pro Cys Pro Arg Ala Pro Cys Ala  
 115 120 125  
 His Pro Leu Pro Gly Thr Cys Cys Pro Asn Asp Cys Ser Gly Cys Ala  
 130 135 140  
 Phe Gly Gly Lys Glu Tyr Pro Ser Gly Ala Asp Xaa Pro His Pro Ser  
 145 150 155 160  
 Asp Pro Cys Arg Leu Cys Arg Cys Leu Ser Gly Asn Val Gln Cys Leu  
 165 170 175  
 Ala Arg Arg Cys Val Pro Leu Pro Cys Pro Glu Pro Val Leu Leu Pro  
 180 185 190  
 Gly Glu Cys Cys Pro Glu Trp Pro Lys Pro Pro Ser Pro Arg Pro Ala  
 195 200 205  
 Ala His Gly Pro Gly Xaa Gly Pro Thr Ala Arg Pro Pro Arg Lys Tyr  
 210 215 220  
 Leu Phe Ser Pro Xaa Pro Gly Asp Xaa Leu Gly  
 225 230 235

&lt;210&gt; 6291

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens



## 5517

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6291

Ala	Asp	Asn	Asn	Phe	Thr	Gln	Glu	Thr	Ala	Met	Thr	Met	Ile	Thr	Pro
1				5					10					15	

Ser	Ser	Lys	Leu	Thr	Leu	Thr	Lys	Gly	Asn	Lys	Ser	Trp	Ser	Ser	Thr
			20					25					30		

Ala	Val	Ala	Ala	Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn
		35					40					45			

Ser	Xaa	Arg	Ala	Lys	Leu	Gln
	50					55

&lt;210&gt; 6292

&lt;211&gt; 421

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6292

Val	Gly	Asp	Cys	Cys	Val	Pro	Tyr	Leu	Asp	Pro	Glu	Gly	Thr	Ser	Leu
1				5					10					15	

Leu	Gly	Trp	Leu	Ser	Val	Ser	Leu	Leu	Ser	Ser	Gly	Glu	Ile	Thr	Ala
			20					25					30		

Ser	Ser	Ala	Pro	Arg	Met	Glu	Pro	Pro	Gly	Arg	Arg	Glu	Cys	Pro	Phe
		35					40					45			

Pro	Ser	Trp	Arg	Phe	Pro	Gly	Leu	Leu	Leu	Ala	Ala	Met	Val	Leu	Leu
		50				55				60					

Leu	Tyr	Ser	Phe	Ser	Asp	Ala	Cys	Glu	Glu	Pro	Pro	Thr	Phe	Glu	Ala
65					70					75				80	

Met	Glu	Leu	Ile	Gly	Lys	Pro	Lys	Pro	Tyr	Tyr	Glu	Ile	Gly	Glu	Arg
				85					90					95	

Val	Asp	Tyr	Lys	Cys	Lys	Lys	Gly	Tyr	Phe	Tyr	Ile	Pro	Pro	Leu	Ala
			100					105						110	

Thr	His	Thr	Ile	Cys	Asp	Arg	Asn	His	Thr	Trp	Leu	Pro	Val	Ser	Asp
			115				120					125			

## 5518

Asp	Ala	Cys	Tyr	Arg	Glu	Thr	Cys	Pro	Tyr	Ile	Arg	Asp	Pro	Leu	Asn	130	135	140	
Gly	Gln	Ala	Val	Pro	Ala	Asn	Gly	Thr	Tyr	Glu	Phe	Gly	Tyr	Gln	Met	145	150	155	160
His	Phe	Ile	Cys	Asn	Glu	Gly	Tyr	Tyr	Leu	Ile	Gly	Glu	Glu	Ile	Leu	165	170	175	
Tyr	Cys	Glu	Leu	Lys	Gly	Ser	Val	Ala	Ile	Trp	Ser	Gly	Lys	Pro	Pro	180	185	190	
Ile	Cys	Glu	Lys	Val	Leu	Cys	Thr	Pro	Pro	Pro	Lys	Ile	Lys	Asn	Gly	195	200	205	
Lys	His	Thr	Phe	Ser	Glu	Val	Glu	Val	Phe	Glu	Tyr	Leu	Asp	Ala	Val	210	215	220	
Thr	Tyr	Ser	Cys	Asp	Pro	Ala	Pro	Gly	Pro	Asp	Pro	Phe	Ser	Leu	Ile	225	230	235	240
Gly	Glu	Ser	Thr	Ile	Tyr	Cys	Gly	Asp	Asn	Ser	Val	Trp	Ser	Arg	Ala	245	250	255	
Ala	Pro	Glu	Cys	Lys	Val	Val	Lys	Cys	Arg	Phe	Pro	Val	Val	Glu	Asn	260	265	270	
Gly	Lys	Gln	Ile	Ser	Gly	Phe	Gly	Lys	Lys	Phe	Tyr	Tyr	Lys	Ala	Thr	275	280	285	
Val	Met	Phe	Glu	Cys	Asp	Lys	Gly	Phe	Tyr	Leu	Asp	Gly	Ser	Asp	Thr	290	295	300	
Ile	Val	Cys	Asp	Ser	Asn	Ser	Thr	Trp	Asp	Pro	Pro	Val	Pro	Lys	Cys	305	310	315	320
Leu	Lys	Val	Ser	Thr	Ser	Ser	Thr	Thr	Lys	Ser	Pro	Ala	Ser	Ser	Ala	325	330	335	
Ser	Gly	Pro	Arg	Pro	Thr	Tyr	Lys	Pro	Pro	Val	Ser	Asn	Tyr	Pro	Gly	340	345	350	
Tyr	Pro	Lys	Pro	Glu	Glu	Gly	Ile	Leu	Asp	Ser	Leu	Asp	Val	Trp	Val	355	360	365	
Ile	Ala	Val	Ile	Val	Ile	Ala	Ile	Val	Val	Gly	Val	Ala	Val	Ile	Cys	370	375	380	
Val	Val	Pro	Tyr	Arg	Tyr	Leu	Gln	Arg	Arg	Lys	Lys	Lys	Gly	Lys	Ala	385	390	395	400

## 5519

Asp Gly Gly Ala Glu Tyr Ala Thr Tyr Gln Thr Lys Ser Thr Thr Pro  
 405 410 415

Ala Glu Gln Arg Gly  
 420

<210> 6293

<211> 80

<212> PRT

<213> Homo sapiens

<400> 6293

Gly His Cys Gln Gly Leu Lys Pro Val Glu Gln Pro Leu Ala Met Ser  
 1 5 10 15

Pro Leu Gln Tyr Ser Phe Met Ala Val Ile His Phe Ala Gly Leu Lys  
 20 25 30

Ala Val Gly Glu Ser Val Gln Lys Pro Leu Asp Tyr Tyr Arg Val Asn  
 35 40 45

Leu Thr Gly Thr Ile Gln Leu Leu Glu Ile Met Lys Ala His Gly Val  
 50 55 60

Lys Asn Leu Val Phe Ser Ser Ser Ala Thr Val Tyr Gly Asn Pro Gln  
 65 70 75 80

<210> 6294

<211> 78

<212> PRT

<213> Homo sapiens

<400> 6294

Glu Ala Asp Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys  
 1 5 10 15

Val Cys Ile Gln Thr His Ile Phe Leu Lys Cys Lys Tyr Ser Leu Phe  
 20 25 30

Lys Lys Ile Ile Ile Thr Ala Lys Gln Ile Thr Ser Asn Ser Phe Ile  
 35 40 45

Leu Ile Tyr Pro Val Phe Arg Phe Ser Arg Leu Ala Pro Asn Phe Phe  
 50 55 60

## 5520

Thr Asp Tyr Leu Asn Leu Ile Gln Phe Met Tyr Cys Asn Val  
 65 70 75

<210> 6295

<211> 284

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6295

Phe Ser Val Val Asp Xaa Arg Lys Phe Ser Ala Val Ser Gly Glu Thr  
 1 5 10 15

Arg Gly Leu Arg Val Ser Leu Ser Val Phe Gln Ser Pro Gly Ala Val  
 20 25 30

Val Gln Gly Leu Gly Leu Val Met Ala Ser Pro Ser Arg Arg Leu Gln  
 35 40 45

Thr Lys Pro Val Ile Thr Cys Phe Lys Ser Val Leu Leu Ile Tyr Thr  
 50 55 60

Phe Ile Phe Trp Ile Thr Gly Val Ile Leu Leu Ala Val Gly Ile Trp  
 65 70 75 80

Gly Lys Val Ser Leu Glu Asn Tyr Phe Ser Leu Leu Asn Glu Lys Ala  
 85 90 95

Thr Asn Val Pro Phe Val Leu Ile Ala Thr Gly Thr Val Ile Ile Leu  
 100 105 110

Leu Gly Thr Phe Gly Cys Phe Ala Thr Cys Arg Ala Ser Ala Trp Met  
 115 120 125

Leu Lys Leu Tyr Ala Met Phe Leu Thr Leu Val Phe Leu Val Glu Leu  
 130 135 140

Val Ala Ala Ile Val Gly Phe Val Phe Arg His Glu Ile Lys Asn Ser  
 145 150 155 160

Phe Lys Asn Asn Tyr Glu Lys Ala Leu Lys Gln Tyr Asn Ser Thr Gly  
 165 170 175

Asp Tyr Arg Ser His Ala Val Asp Lys Ile Gln Asn Thr Leu His Cys

## 5521

	180		185		190
Cys Gly Val Thr Asp Tyr Arg Asp Trp Thr Asp Thr Asn Tyr Tyr Ser					
	195		200		205
Glu Lys Gly Phe Pro Lys Ser Cys Cys Lys Leu Glu Asp Cys Thr Pro					
	210		215		220
Gln Arg Asp Ala Asp Lys Val Asn Asn Glu Gly Cys Phe Ile Lys Val					
	225		230		235
Met Thr Ile Ile Glu Ser Glu Met Gly Val Val Ala Gly Ile Ser Phe					
		245		250	255
Gly Val Ala Cys Phe Gln Leu Ile Gly Ile Phe Leu Ala Tyr Cys Leu					
	260		265		270
Ser Arg Ala Ile Thr Asn Asn Gln Tyr Glu Ile Val					
	275		280		

&lt;210&gt; 6296

&lt;211&gt; 368

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6296

Lys Thr Leu Ser Gly Gly Gly Arg Arg Gln Lys Gly Trp Asp Val Ser					
1		5		10	15
Phe Lys Phe Pro Gly His Ser Leu Ile Val Leu Tyr Val Pro Ala Asp					
	20		25		30
Cys Gln Cys Asp Leu Thr Leu Ser Ser His Pro Ser Ser Val Pro Ala					
	35		40		45
Met Ser Ser Cys Asn Phe Thr His Ala Thr Phe Val Leu Ile Gly Ile					
	50		55		60
Pro Gly Leu Glu Lys Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser					
	65		70		75
Met Tyr Val Val Ala Met Phe Gly Asn Cys Ile Val Val Phe Ile Val					
		85		90	95
Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met					
	100		105		110
Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile					
	115		120		125

## 5522

Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys  
 130 135 140

Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr  
 145 150 155 160

Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro  
 165 170 175

Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly  
 180 185 190

Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu  
 195 200 205

Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser  
 210 215 220

Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu  
 225 230 235 240

Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val  
 245 250 255

Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val  
 260 265 270

Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys  
 275 280 285

Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly  
 290 295 300

Leu Ser Val Val His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg  
 305 310 315 320

Val Val Met Gly Asp Ile Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro  
 325 330 335

Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala  
 340 345 350

Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala Val Gly Gly Lys  
 355 360 365

## 5523

&lt;210&gt; 6297

&lt;211&gt; 335

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6297

Thr	Ser	Ser	Ile	Ser	Tyr	Leu	Tyr	Asn	Lys	Leu	Pro	Arg	Arg	Arg	Ala
1				5					10						15

Asp	Leu	Phe	Gly	Glu	Glu	Leu	Glu	Arg	Leu	Leu	Lys	Xaa	Lys	Tyr	Glu
			20					25					30		

Gly	His	Trp	Tyr	Pro	Glu	Lys	Pro	Leu	Lys	Gly	Ser	Gly	Phe	Arg	Cys
			35				40					45			

Val	His	Ile	Gly	Glu	Met	Val	Asp	Pro	Val	Val	Glu	Leu	Ala	Ala	Lys
						55					60				

Arg	Ser	Gly	Leu	Ala	Val	Glu	Asp	Val	Arg	Ala	Asn	Val	Pro	Glu	Glu
65					70					75					80

Leu	Ser	Val	Trp	Ile	Asp	Pro	Phe	Glu	Val	Ser	Tyr	Gln	Ile	Gly	Glu
				85					90					95	

Lys	Gly	Ala	Val	Lys	Val	Leu	Tyr	Leu	Asp	Asp	Ser	Glu	Gly	Cys	Gly
		100						105					110		

Ala	Pro	Glu	Leu	Asp	Lys	Glu	Ile	Lys	Ser	Ser	Phe	Asn	Pro	Asp	Ala
		115					120					125			

Gln	Val	Phe	Val	Pro	Ile	Gly	Ser	Gln	Asp	Ser	Ser	Leu	Ser	Asn	Ser
						135					140				

Pro	Ser	Pro	Ser	Phe	Gly	Gln	Ser	Pro	Ser	Pro	Thr	Phe	Ile	Pro	Arg
145					150					155					160

Ser	Ala	Gln	Pro	Ile	Thr	Phe	Thr	Thr	Ala	Ser	Phe	Ala	Ala	Thr	Lys
				165					170					175	

Phe	Gly	Ser	Thr	Lys	Met	Lys	Lys	Gly	Gly	Gly	Ala	Ala	Ser	Gly	Gly
			180					185					190		

Gly	Val	Ala	Ser	Ser	Gly	Ala	Gly	Gly	Gln	Gln	Pro	Pro	Gln	Gln	Pro
		195					200					205			

Arg	Met	Ala	Arg	Ser	Pro	Thr	Asn	Ser	Leu	Leu	Lys	His	Lys	Ser	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 5524

210	215	220
Ser Leu Ser Met His Ser Leu Asn Phe Ile Thr Ala Asn Pro Ala Pro		
225	230	235 240
Gln Ser Gln Leu Ser Pro Asn Ala Lys Glu Phe Val Tyr Asn Gly Gly		
	245	250 255
Gly Ser Pro Ser Leu Phe Phe Asp Ala Ala Asp Gly Gln Gly Ser Gly		
	260	265 270
Thr Pro Gly Pro Phe Gly Gly Ser Gly Ala Gly Thr Cys Asn Ser Ser		
	275	280 285
Ser Phe Asp Met Ala Gln Val Phe Gly Gly Gly Ala Asn Ser Leu Phe		
	290	295 300
Leu Glu Lys Thr Pro Phe Val Glu Gly Leu Ser Tyr Asn Leu Asn Thr		
305	310	315 320
Met Gln Tyr Pro Ser Gln Gln Phe Gln Pro Val Val Leu Ala Asn		
	325	330 335

&lt;210&gt; 6298

&lt;211&gt; 461

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6298

Gln Ser Leu Asn Asn Tyr Leu Val Ile Pro Thr Ser Ala Pro Trp Cys		
1	5	10 15
Glu Gln Leu Leu Asn Met Asn Tyr Ser Leu His Leu Ala Phe Val Cys		
	20	25 30
Leu Ser Leu Phe Thr Glu Arg Met Cys Ile Gln Gly Ser Gln Phe Asn		
	35	40 45
Val Glu Val Gly Arg Ser Asp Lys Leu Ser Leu Pro Gly Phe Glu Asn		
	50	55 60
Leu Thr Ala Gly Tyr Asn Lys Phe Leu Arg Pro Asn Phe Gly Gly Glu		
65	70	75 80
Pro Val Gln Ile Ala Leu Thr Leu Asp Ile Ala Ser Ile Ser Ser Ile		
	85	90 95
Ser Glu Ser Asn Met Asp Tyr Thr Ala Thr Ile Tyr Leu Arg Gln Arg		
	100	105 110



## 5525

Trp	Met	Asp	Gln	Arg	Leu	Val	Phe	Glu	Gly	Asn	Lys	Ser	Phe	Thr	Leu	115	120	125
Asp	Ala	Arg	Leu	Val	Glu	Phe	Leu	Trp	Val	Pro	Asp	Thr	Tyr	Ile	Val	130	135	140
Glu	Ser	Lys	Lys	Ser	Phe	Leu	His	Glu	Val	Thr	Val	Gly	Asn	Arg	Leu	145	150	155
Ile	Arg	Leu	Phe	Ser	Asn	Gly	Thr	Val	Leu	Tyr	Ala	Leu	Arg	Ile	Thr	165	170	175
Thr	Thr	Val	Ala	Cys	Asn	Met	Asp	Leu	Ser	Lys	Tyr	Pro	Met	Asp	Thr	180	185	190
Gln	Thr	Cys	Lys	Leu	Gln	Leu	Glu	Ser	Trp	Gly	Tyr	Asp	Gly	Asn	Asp	195	200	205
Val	Glu	Phe	Thr	Trp	Leu	Arg	Gly	Asn	Asp	Ser	Val	Arg	Gly	Leu	Glu	210	215	220
His	Leu	Arg	Leu	Ala	Gln	Tyr	Thr	Ile	Glu	Arg	Tyr	Phe	Thr	Leu	Val	225	230	235
Thr	Arg	Ser	Gln	Gln	Glu	Thr	Gly	Asn	Tyr	Thr	Arg	Leu	Val	Leu	Gln	245	250	255
Phe	Glu	Leu	Arg	Arg	Asn	Val	Leu	Tyr	Phe	Ile	Leu	Glu	Thr	Tyr	Val	260	265	270
Pro	Ser	Thr	Phe	Leu	Val	Val	Leu	Ser	Trp	Val	Ser	Phe	Trp	Ile	Ser	275	280	285
Leu	Asp	Ser	Val	Pro	Ala	Arg	Thr	Cys	Ile	Gly	Val	Thr	Thr	Val	Leu	290	295	300
Ser	Met	Thr	Thr	Leu	Met	Ile	Gly	Ser	Arg	Thr	Ser	Leu	Pro	Asn	Thr	305	310	315
Asn	Cys	Phe	Ile	Lys	Ala	Ile	Asp	Val	Tyr	Leu	Gly	Ile	Cys	Phe	Ser	325	330	335
Phe	Val	Phe	Gly	Ala	Leu	Leu	Glu	Tyr	Ala	Val	Ala	His	Tyr	Ser	Ser	340	345	350
Leu	Gln	Gln	Met	Ala	Ala	Lys	Asp	Arg	Gly	Thr	Thr	Lys	Glu	Val	Glu	355	360	365
Glu	Val	Ser	Ile	Thr	Asn	Ile	Ile	Asn	Ser	Ser	Ile	Ser	Ser	Phe	Lys	370	375	380

## 5526

Arg Lys Ile Ser Phe Ala Ser Ile Glu Ile Ser Ser Asp Asn Val Asp  
 385 390 395 400

Tyr Ser Asp Leu Thr Met Lys Thr Ser Asp Lys Phe Lys Phe Val Phe  
 405 410 415

Arg Glu Lys Met Gly Arg Ile Val Asp Tyr Phe Thr Ile Gln Asn Pro  
 420 425 430

Ser Asn Val Asp His Tyr Ser Lys Leu Leu Phe Pro Leu Ile Phe Met  
 435 440 445

Leu Ala Asn Val Phe Tyr Trp Ala Tyr Tyr Met Tyr Phe  
 450 455 460

<210> 6299

<211> 403

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (244)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6299

Ala Gly Trp Ser Pro Glu Ser Leu Ala Tyr Trp Pro Xaa Arg Ser Asp  
 1 5 10 15

Thr Glu Val Pro Pro Leu Asp Leu Gly Trp Thr Asp Thr Gly Phe Tyr  
 20 25 30

Arg Gly Val Ser Xaa Val Thr Leu Phe Thr His Pro Pro Lys Asp Glu

## 5527

35	40	45																	
Lys	Ala	Pro	His	Leu	Lys	Gln	Xaa	Val	Arg	Gln	Met	Ile	Gln	Gln	Ala				
50						55					60								
Gln	Lys	Val	Ile	Ala	Val	Val	Met	Asp	Leu	Phe	Thr	Asp	Gly	Asp	Ile				
65					70					75					80				
Phe	Gln	Asp	Ile	Val	Asp	Ala	Ala	Cys	Lys	Arg	Arg	Val	Pro	Val	Tyr				
				85					90					95					
Ile	Ile	Leu	Asp	Glu	Ala	Gly	Val	Lys	Tyr	Phe	Leu	Glu	Met	Cys	Gln				
			100					105					110						
Asp	Leu	Gln	Leu	Thr	Asp	Phe	Arg	Ile	Arg	Asn	Ile	Arg	Val	Arg	Ser				
	115						120					125							
Val	Thr	Gly	Val	Gly	Phe	Tyr	Met	Pro	Met	Gly	Arg	Ile	Lys	Gly	Thr				
	130					135					140								
Leu	Ser	Ser	Arg	Phe	Leu	Met	Val	Asp	Gly	Asp	Lys	Val	Ala	Thr	Gly				
145					150				155						160				
Ser	Tyr	Arg	Phe	Thr	Trp	Ser	Ser	Ser	His	Val	Asp	Arg	Asn	Leu	Leu				
			165						170					175					
Leu	Leu	Leu	Thr	Gly	Gln	Asn	Val	Glu	Pro	Phe	Asp	Thr	Glu	Phe	Arg				
			180					185					190						
Glu	Leu	Tyr	Ala	Ile	Ser	Glu	Glu	Val	Asp	Leu	Tyr	Arg	Gln	Leu	Ser				
	195					200						205							
Leu	Ala	Gly	Arg	Val	Gly	Leu	His	Tyr	Ser	Ser	Thr	Val	Ala	Arg	Lys				
	210					215					220								
Leu	Ile	Asn	Pro	Lys	Tyr	Ala	Leu	Val	Ser	Gly	Cys	Arg	His	Pro	Pro				
225				230						235					240				
Gly	Glu	Met	Xaa	Arg	Trp	Ala	Ala	Arg	Gln	Gln	Arg	Glu	Ala	Gly	Gly				
			245						250					255					
Asn	Pro	Glu	Gly	Gln	Glu	Glu	Gly	Ala	Ser	Gly	Gly	Glu	Ser	Ala	Trp				
			260				265						270						
Arg	Leu	Glu	Ser	Phe	Leu	Lys	Asp	Leu	Val	Thr	Val	Glu	Gln	Val	Leu				
	275					280						285							
Pro	Pro	Val	Glu	Pro	Ile	Pro	Leu	Gly	Glu	Leu	Ser	Gln	Lys	Asp	Gly				
	290					295					300								
Arg	Met	Val	Ser	His	Met	His	Arg	Asp	Leu	Lys	Pro	Lys	Ser	Arg	Glu				

[illegible]

```

<210> 6300
<211> 775
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6300
Gln Xaa Xaa Tyr Xaa Xaa Pro Gly Arg Pro Thr Arg Pro Gly Ser S
1 5 10 15

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## 5529

Gly Ala Lys Met Ser Phe Val Ala Gly Val Ile Arg Arg Leu Asp Glu  
                   20                  25                  30  
 Thr Val Val Asn Arg Ile Ala Ala Gly Glu Val Ile Gln Arg Pro Ala  
                   35                  40                  45  
 Asn Ala Ile Lys Glu Met Ile Glu Asn Cys Leu Asp Ala Lys Ser Thr  
                   50                  55                  60  
 Ser Ile Gln Val Ile Val Lys Glu Gly Gly Leu Lys Leu Ile Gln Ile  
                   65                  70                  75                  80  
 Gln Asp Asn Gly Thr Gly Ile Arg Lys Glu Asp Leu Asp Ile Val Cys  
                   85                  90                  95  
 Glu Arg Phe Thr Thr Ser Lys Leu Gln Ser Phe Glu Asp Leu Ala Ser  
                   100                  105                  110  
 Ile Ser Thr Tyr Gly Phe Arg Gly Glu Ala Leu Ala Ser Ile Ser His  
                   115                  120                  125  
 Val Ala His Val Thr Ile Thr Thr Lys Thr Ala Asp Gly Lys Cys Ala  
                   130                  135                  140  
 Tyr Arg Ala Ser Tyr Ser Asp Gly Lys Leu Lys Ala Pro Pro Lys Pro  
                   145                  150                  155                  160  
 Cys Ala Gly Asn Gln Gly Thr Gln Ile Thr Val Glu Asp Leu Phe Tyr  
                   165                  170                  175  
 Asn Ile Ala Thr Arg Arg Lys Ala Leu Lys Asn Pro Ser Glu Glu Tyr  
                   180                  185                  190  
 Gly Lys Ile Leu Glu Val Val Gly Arg Tyr Ser Val His Asn Ala Gly  
                   195                  200                  205  
 Ile Ser Phe Ser Val Lys Lys Gln Gly Glu Thr Val Ala Asp Val Arg  
                   210                  215                  220  
 Thr Leu Pro Asn Ala Ser Thr Val Asp Asn Ile Arg Ser Ile Phe Gly  
                   225                  230                  235                  240  
 Asn Ala Val Ser Arg Glu Leu Ile Glu Ile Gly Cys Glu Asp Lys Thr  
                   245                  250                  255  
 Leu Ala Phe Lys Met Asn Gly Tyr Ile Ser Asn Ala Asn Tyr Ser Val  
                   260                  265                  270  
 Lys Lys Cys Ile Phe Leu Leu Phe Ile Asn His Arg Leu Val Glu Ser  
                   275                  280                  285

## 5530

Thr	Ser	Leu	Arg	Lys	Ala	Ile	Glu	Thr	Val	Tyr	Ala	Ala	Tyr	Leu	Pro	290	295	300
Lys	Asn	Thr	His	Pro	Phe	Leu	Tyr	Leu	Ser	Leu	Glu	Ile	Ser	Pro	Gln	305	310	315
Asn	Val	Asp	Val	Asn	Val	His	Pro	Thr	Lys	His	Glu	Val	His	Phe	Leu	325	330	335
His	Glu	Glu	Ser	Ile	Leu	Glu	Arg	Val	Gln	Gln	His	Ile	Glu	Ser	Lys	340	345	350
Leu	Leu	Gly	Ser	Asn	Ser	Ser	Arg	Met	Tyr	Phe	Thr	Gln	Thr	Leu	Leu	355	360	365
Pro	Gly	Leu	Ala	Gly	Pro	Ser	Gly	Glu	Met	Val	Lys	Ser	Thr	Thr	Ser	370	375	380
Leu	Thr	Ser	Ser	Ser	Thr	Ser	Gly	Ser	Ser	Asp	Lys	Val	Tyr	Ala	His	385	390	395
Gln	Met	Val	Arg	Thr	Asp	Ser	Arg	Glu	Gln	Lys	Leu	Asp	Ala	Phe	Leu	405	410	415
Gln	Pro	Leu	Ser	Lys	Pro	Leu	Ser	Ser	Gln	Pro	Gln	Ala	Ile	Val	Thr	420	425	430
Glu	Asp	Lys	Thr	Asp	Ile	Ser	Ser	Gly	Arg	Ala	Arg	Gln	Gln	Asp	Glu	435	440	445
Glu	Met	Leu	Glu	Leu	Pro	Ala	Pro	Ala	Glu	Val	Ala	Ala	Lys	Asn	Gln	450	455	460
Ser	Leu	Glu	Gly	Asp	Thr	Thr	Lys	Gly	Thr	Ser	Glu	Met	Ser	Glu	Lys	465	470	475
Arg	Gly	Pro	Thr	Ser	Ser	Asn	Pro	Arg	Lys	Arg	His	Arg	Glu	Asp	Ser	485	490	495
Asp	Val	Glu	Met	Val	Glu	Asp	Asp	Ser	Arg	Lys	Glu	Met	Thr	Ala	Ala	500	505	510
Cys	Thr	Pro	Arg	Arg	Arg	Ile	Ile	Asn	Leu	Thr	Ser	Val	Leu	Ser	Leu	515	520	525
Gln	Glu	Glu	Ile	Asn	Glu	Gln	Gly	His	Glu	Val	Leu	Arg	Glu	Met	Leu	530	535	540
His	Asn	His	Ser	Phe	Val	Gly	Cys	Val	Asn	Pro	Gln	Trp	Ala	Leu	Ala	545	550	555
																		560

## 5531

Gln His Gln Thr Lys Leu Tyr Leu Leu Asn Thr Thr Lys Leu Ser Glu  
565 570 575

Glu Leu Phe Tyr Gln Ile Leu Ile Tyr Asp Phe Ala Asn Phe Gly Val  
580 585 590

Leu Arg Leu Ser Glu Pro Ala Pro Leu Phe Asp Leu Ala Met Leu Ala  
595 600 605

Leu Asp Ser Pro Glu Ser Gly Trp Thr Glu Glu Asp Gly Pro Lys Glu  
610 615 620

Gly Leu Ala Glu Tyr Ile Val Glu Phe Leu Lys Lys Lys Ala Glu Met  
625 630 635 640

Leu Ala Asp Tyr Phe Ser Leu Glu Ile Asp Glu Glu Gly Asn Leu Ile  
645 650 655

Gly Leu Pro Leu Leu Ile Asp Asn Tyr Val Pro Pro Leu Glu Gly Leu  
660 665 670

Pro Ile Phe Ile Leu Arg Leu Ala Thr Glu Val Asn Trp Asp Glu Glu  
675 680 685

Lys Glu Cys Phe Glu Ser Leu Ser Lys Glu Cys Ala Met Phe Tyr Ser  
690 695 700

Ile Arg Lys Gln Tyr Ile Ser Glu Glu Ser Thr Leu Ser Gly Gln Gln  
705 710 715 720

Ser Glu Val Pro Gly Ser Ile Pro Asn Ser Trp Lys Trp Thr Val Glu  
725 730 735

His Ile Val Tyr Lys Ala Leu Arg Ser His Ile Leu Pro Pro Lys His  
740 745 750

Phe Thr Glu Asp Gly Asn Ile Leu Gln Leu Ala Asn Leu Pro Asp Leu  
755 760 765

Tyr Lys Val Phe Glu Arg Cys  
770 775

&lt;210&gt; 6301

&lt;211&gt; 159

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

## 5532

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (108)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (140)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (149)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6301

Ala	Gln	Leu	Val	Phe	Pro	Ser	Ser	Cys	Leu	Ala	Phe	Xaa	Ser	Pro	Leu
1				5					10					15	

Ser	Val	Phe	Lys	Arg	Phe	Lys	Glu	Thr	Thr	Arg	Pro	Phe	Ser	Asn	Glu
			20				25						30		

Cys	Leu	Gly	Thr	Thr	Arg	Pro	Val	Val	Pro	Ile	Asp	Ser	Ser	Asp	Phe
		35					40					45			

Ala	Leu	Asp	Ile	Arg	Met	Pro	Gly	Val	Thr	Pro	Lys	Gln	Ser	Asp	Thr
	50					55					60				

Tyr	Phe	Cys	Met	Ser	Met	Arg	Ile	Pro	Val	Asp	Glu	Glu	Ala	Phe	Val
65					70					75					80

Ile	Asp	Phe	Lys	Pro	Arg	Ala	Ser	Met	Asp	Thr	Val	His	His	Met	Leu
				85					90					95	

Leu	Phe	Gly	Cys	Asn	Met	Pro	Ser	Ser	Thr	Gly	Xaa	Tyr	Trp	Phe	Cys
			100					105					110		

Asp	Glu	Gly	Thr	Cys	Thr	Asp	Lys	Ala	Asn	Asp	Ser	Val	Cys	Leu	Gly
		115					120					125			

Glu	Lys	Cys	Phe	Pro	Leu	Pro	Gly	Leu	Pro	Lys	Xaa	Cys	Trp	Asp	Ser
	130					135					140				

Glu	Leu	Gly	Gly	Xaa	Asp	Trp	Glu	Val	Asn	Thr	Trp	Tyr	Tyr	Arg	
145					150					155					



## 5533

&lt;210&gt; 6302

&lt;211&gt; 211

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (57)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6302

Asp	Ser	Tyr	Arg	Glu	Ser	Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile
1				5					10					15	

Pro	Gly	Ser	Thr	His	Ala	Ser	Gly	Lys	Gly	Phe	Tyr	Ser	Tyr	Gln	Ser
			20					25					30		

Leu	His	Glu	Trp	Phe	Arg	Asp	Thr	Asp	Ala	Glu	Phe	Val	Asp	Ile	Asp
		35					40					45			

Gly	Lys	Ser	His	Leu	Ile	Leu	Xaa	Xaa	Arg	Ser	Xaa	Val	Pro	Ile	Ile
	50					55					60				

Leu	Gln	Trp	Asn	Lys	Ser	Ser	Lys	Lys	Phe	Val	Pro	His	Gly	Asp	Ile
65					70					75					80

Pro	Asn	Met	Glu	Asp	Val	Leu	Ala	Val	Lys	Ser	Phe	Arg	Met	Gln	Asn
				85					90					95	

Thr	Leu	Tyr	Leu	Ser	Leu	Thr	Arg	Phe	Ile	Gly	Asp	Ser	Arg	Val	Met
			100					105					110		

Arg	Trp	Asn	Ser	Lys	Gln	Phe	Val	Glu	Ile	Gln	Ala	Leu	Pro	Ser	Arg
		115					120					125			

Gly	Ala	Met	Thr	Leu	Gln	Pro	Phe	Ser	Phe	Lys	Asp	Asn	His	Tyr	Leu
	130					135					140				

Ala	Leu	Gly	Ser	Asp	Tyr	Thr	Phe	Ser	Gln	Ile	Tyr	Gln	Trp	Asp	Lys
145					150					155					160

## 5534

Glu Lys Gln Leu Phe Lys Lys Phe Lys Glu Ile Tyr Val Gln Ala Pro  
                     165                    170                    175  
 Arg Ser Phe Thr Ala Val Ser Thr Asp Arg Arg Asp Phe Phe Phe Ala  
                     180                    185                    190  
 Ser Ser Phe Lys Gly Lys Thr Lys Ile Phe Glu His Ile Ile Val Asp  
                     195                    200                    205  
 Leu Ser Leu  
             210

&lt;210&gt; 6303

&lt;211&gt; 704

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (89)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (122)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6303

Arg His Pro Ala Ala His Pro Ala Gly Pro Gly Glu Ala Leu Ala Ala  
     1                    5                    10                    15  
 Val Leu Lys Glu Val Cys Asp Ala Trp Ser Leu Thr His Ser Glu Arg  
                     20                    25                    30  
 Tyr Ala Leu Gln Phe Ala Asp Gly His Arg Arg Tyr Ile Thr Glu Asn  
                     35                    40                    45  
 Asn Arg Ala Glu Ile Lys Asn Gly Ser Ile Leu Cys Leu Ser Thr Ala  
                     50                    55                    60  
 Pro Asp Leu Glu Ala Glu Gln Leu Leu Gly Gly Leu Gln Ser Asn Ser  
     65                    70                    75                    80  
 Pro Glu Gly Arg Arg Glu Ala Leu Xaa Arg Leu Val Pro Leu Ala Ser  
                     85                    90                    95  
 Asp Met Ile Phe Ala Arg Glu Val Ile Ser Arg Asn Gly Leu Gln Ile  
                     100                    105                    110

## 5535

Leu	Gly	Thr	Ile	Ile	Glu	Asp	Gly	Asp	Xaa	Leu	Gly	Glu	Val	Leu	Ala	115	120	125	
Leu	Ser	Leu	Arg	Ala	Phe	Ser	Glu	Leu	Met	Glu	His	Gly	Val	Val	Ser	130	135	140	
Trp	Glu	Thr	Leu	Ser	Ile	Pro	Phe	Val	Arg	Lys	Val	Val	Cys	Tyr	Val	145	150	155	160
Asn	Met	Asn	Leu	Met	Asp	Ala	Ser	Val	Pro	Pro	Leu	Ala	Leu	Gly	Leu	165	170	175	
Leu	Glu	Ser	Val	Thr	Leu	Ser	Ser	Pro	Ala	Leu	Gly	Gln	Leu	Val	Lys	180	185	190	
Ser	Glu	Val	Pro	Leu	Asp	Arg	Leu	Leu	Val	His	Leu	Gln	Val	Met	Asn	195	200	205	
Gln	Gln	Leu	Gln	Thr	Lys	Ala	Met	Ala	Leu	Leu	Thr	Ala	Leu	Leu	Gln	210	215	220	
Gly	Ala	Ser	Pro	Val	Glu	Arg	Lys	His	Met	Leu	Asp	Tyr	Leu	Trp	Gln	225	230	235	240
Arg	Asn	Leu	Arg	Gln	Phe	Ile	Tyr	Lys	Asn	Ile	Ile	His	Ser	Ala	Ala	245	250	255	
Pro	Met	Gly	Asp	Glu	Met	Ala	His	His	Leu	Tyr	Val	Leu	Gln	Ala	Leu	260	265	270	
Met	Leu	Gly	Leu	Leu	Glu	Pro	Arg	Met	Arg	Thr	Pro	Leu	Asp	Pro	Tyr	275	280	285	
Ser	Gln	Glu	Gln	Arg	Glu	Gln	Leu	Gln	Val	Leu	Arg	Gln	Ala	Ala	Phe	290	295	300	
Glu	Val	Glu	Gly	Glu	Ser	Ser	Gly	Ala	Gly	Leu	Ser	Ala	Asp	Arg	Arg	305	310	315	320
Arg	Ser	Leu	Cys	Ala	Arg	Glu	Phe	Arg	Lys	Leu	Gly	Phe	Ser	Asn	Ser	325	330	335	
Asn	Pro	Ala	Gln	Asp	Leu	Glu	Arg	Val	Pro	Pro	Gly	Leu	Leu	Ala	Leu	340	345	350	
Asp	Asn	Met	Leu	Tyr	Phe	Ser	Arg	Asn	Ala	Pro	Ser	Ala	Tyr	Ser	Arg	355	360	365	
Phe	Val	Leu	Glu	Asn	Ser	Ser	Arg	Glu	Asp	Lys	His	Glu	Cys	Pro	Phe	370	375	380	

## 5536

Ala	Arg	Gly	Ser	Ile	Gln	Leu	Thr	Val	Leu	Leu	Cys	Glu	Leu	Leu	Arg	385	390	395	400
Val	Gly	Glu	Pro	Cys	Ser	Glu	Thr	Ala	Gln	Asp	Phe	Ser	Pro	Met	Phe	405	410	415	
Phe	Gly	Gln	Asp	Gln	Ser	Phe	His	Glu	Leu	Phe	Cys	Val	Gly	Ile	Gln	420	425	430	
Leu	Leu	Asn	Lys	Thr	Trp	Lys	Glu	Met	Arg	Ala	Thr	Gln	Glu	Asp	Phe	435	440	445	
Asp	Lys	Val	Met	Gln	Val	Val	Arg	Glu	Gln	Leu	Ala	Arg	Thr	Leu	Ala	450	455	460	
Leu	Lys	Pro	Thr	Ser	Leu	Glu	Leu	Phe	Arg	Thr	Lys	Val	Asn	Ala	Leu	465	470	475	480
Thr	Tyr	Gly	Glu	Val	Leu	Arg	Leu	Arg	Gln	Thr	Glu	Arg	Leu	His	Gln	485	490	495	
Glu	Gly	Thr	Leu	Ala	Pro	Pro	Ile	Leu	Glu	Leu	Arg	Glu	Lys	Leu	Lys	500	505	510	
Pro	Glu	Leu	Met	Gly	Leu	Ile	Arg	Gln	Gln	Arg	Leu	Leu	Arg	Leu	Cys	515	520	525	
Glu	Gly	Thr	Leu	Phe	Arg	Lys	Ile	Ser	Ser	Arg	Arg	Arg	Gln	Asp	Lys	530	535	540	
Leu	Trp	Phe	Cys	Cys	Leu	Ser	Pro	Asn	His	Lys	Leu	Leu	Gln	Tyr	Gly	545	550	555	560
Asp	Met	Glu	Glu	Gly	Ala	Ser	Pro	Pro	Thr	Leu	Glu	Ser	Leu	Pro	Glu	565	570	575	
Gln	Leu	Pro	Val	Ala	Asp	Met	Arg	Ala	Leu	Leu	Thr	Gly	Lys	Asp	Cys	580	585	590	
Pro	His	Val	Arg	Glu	Lys	Gly	Ser	Gly	Lys	Gln	Asn	Lys	Asp	Leu	Tyr	595	600	605	
Glu	Leu	Ala	Phe	Ser	Ile	Ser	Tyr	Asp	Arg	Gly	Glu	Glu	Glu	Ala	Tyr	610	615	620	
Leu	Asn	Phe	Ile	Ala	Pro	Ser	Lys	Arg	Glu	Phe	Tyr	Leu	Trp	Thr	Asp	625	630	635	640
Gly	Leu	Ser	Ala	Leu	Leu	Gly	Ser	Pro	Met	Gly	Ser	Glu	Gln	Thr	Arg	645	650	655	

## 5537

Leu Asp Leu Glu Gln Leu Leu Thr Met Glu Thr Lys Leu Arg Leu Leu  
                   660                  665                  670  
 Glu Leu Glu Asn Val Pro Ile Pro Glu Arg Pro Pro Pro Val Pro Pro  
                   675                  680                  685  
 Pro Pro Thr Asn Phe Asn Phe Cys Tyr Asp Cys Ser Ile Ala Glu Pro  
                   690                  695                  700

&lt;210&gt; 6304

&lt;211&gt; 75

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6304

Leu Pro Leu Leu Gln Xaa Glu Met Cys Ile Arg Asp Ser Tyr Arg Arg  
   1                  5                  10                  15  
 Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser  
                   20                  25                  30  
 Ala His Ala Ser Ala Asp Ala Trp Ala Val Thr Glu Ile Ile Phe Pro  
                   35                  40                  45  
 Tyr Glu Gln Thr Leu Cys Val Arg Pro Val Ser His Met Ser Arg Ala  
                   50                  55                  60  
 Cys Val Gln Val Cys Phe Trp His Val Pro His  
                   65                  70                  75

&lt;210&gt; 6305

&lt;211&gt; 238

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6305

Glu Ile Ser His Asn Leu Gly Val Cys Tyr Ile Tyr Leu Lys Gln Phe  
   1                  5                  10                  15

## 5538

Asn Lys Ala Gln Asp Gln Leu His Asn Ala Leu Asn Leu Asn Arg His  
                   20                  25                  30  
 Asp Leu Thr Tyr Ile Met Leu Gly Lys Ile His Leu Leu Glu Gly Asp  
                   35                  40                  45  
 Leu Asp Lys Ala Ile Glu Val Tyr Lys Lys Ala Val Glu Phe Ser Pro  
                   50                  55                  60  
 Glu Asn Thr Glu Leu Leu Thr Thr Leu Gly Leu Leu Tyr Leu Gln Leu  
                   65                  70                  75                  80  
 Gly Ile Tyr Gln Lys Ala Phe Glu His Leu Gly Asn Ala Leu Thr Tyr  
                                   85                  90                  95  
 Asp Pro Thr Asn Tyr Lys Ala Ile Leu Ala Ala Gly Ser Met Met Gln  
                   100                  105                  110  
 Thr His Gly Asp Phe Asp Val Ala Leu Thr Lys Tyr Arg Val Val Ala  
                   115                  120                  125  
 Cys Ala Val Pro Glu Ser Pro Pro Leu Trp Asn Asn Ile Gly Met Cys  
                   130                  135                  140  
 Phe Phe Gly Lys Lys Lys Tyr Val Ala Ala Ile Ser Cys Leu Lys Arg  
                   145                  150                  155                  160  
 Ala Asn Tyr Leu Ala Pro Phe Asp Trp Lys Ile Leu Tyr Asn Leu Gly  
                                   165                  170                  175  
 Leu Val His Leu Thr Met Gln Gln Tyr Ala Ser Ala Phe His Phe Leu  
                   180                  185                  190  
 Ser Ala Ala Ile Asn Phe Gln Pro Lys Met Gly Glu Leu Tyr Met Leu  
                   195                  200                  205  
 Leu Ala Val Ala Leu Thr Asn Leu Glu Asp Thr Glu Asn Ala Lys Arg  
                   210                  215                  220  
 Ala Tyr Ala Glu Ala Val His Leu Asp Lys Tyr Ala Leu Cys  
                   225                  230                  235

&lt;210&gt; 6306

&lt;211&gt; 345

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6306

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr

## 5539

1	5	10	15
Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Asn Asp Ala Ala	20	25	30
Ser Met Glu Ser Leu Tyr Asp Leu Trp Glu Phe Tyr Leu Pro Tyr Leu	35	40	45
Tyr Ser Cys Ile Ser Leu Met Gly Cys Leu Leu Leu Leu Leu Cys Thr	50	55	60
Pro Val Gly Leu Ser Arg Met Phe Thr Val Met Gly His Leu Leu Val	65	70	75
Lys Pro Thr Ile Leu Glu Asp Leu Asp Glu Gln Ile Tyr Ile Ile Thr	85	90	95
Leu Glu Glu Glu Ala Leu Gln Arg Arg Leu Asn Gly Leu Ser Ser Ser	100	105	110
Val Glu Tyr Asn Ile Met Glu Leu Glu Gln Glu Leu Glu Asn Val Lys	115	120	125
Thr Leu Lys Thr Lys Leu Glu Arg Arg Lys Lys Ala Ser Ala Trp Glu	130	135	140
Arg Asn Leu Val Tyr Pro Ala Val Met Val Leu Leu Leu Ile Glu Thr	145	150	155
Ser Ile Ser Val Leu Leu Val Ala Cys Asn Ile Leu Cys Leu Leu Val	165	170	175
Asp Glu Thr Ala Met Pro Lys Gly Thr Arg Gly Pro Gly Ile Gly Asn	180	185	190
Ala Ser Leu Ser Thr Phe Gly Phe Val Gly Ala Ala Leu Glu Ile Ile	195	200	205
Leu Ile Phe Tyr Leu Met Val Ser Ser Val Val Gly Phe Tyr Ser Leu	210	215	220
Arg Phe Phe Gly Asn Phe Thr Pro Lys Lys Asp Asp Thr Thr Met Thr	225	230	235
Lys Ile Ile Gly Asn Cys Val Ser Ile Leu Val Leu Ser Ser Ala Leu	245	250	255
Pro Val Met Ser Arg Thr Leu Gly Ile Thr Arg Phe Asp Leu Leu Gly	260	265	270
Asp Phe Gly Arg Phe Asn Trp Leu Gly Asn Phe Tyr Ile Val Leu Ser			

## 5540

275                      280                      285  
 Tyr Asn Leu Leu Phe Ala Ile Val Thr Thr Leu Cys Leu Val Arg Lys  
     290                      295                      300  
 Phe Thr Ser Ala Val Arg Glu Glu Leu Phe Lys Ala Leu Gly Leu His  
 305                      310                      315                      320  
 Lys Leu His Leu Pro Asn Thr Ser Arg Asp Ser Glu Thr Ala Lys Pro  
                     325                      330                      335  
 Ser Val Asn Gly His Gln Lys Ala Leu  
                     340                      345  
  
 <210> 6307  
 <211> 404  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (1)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (346)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (401)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 6307  
 Xaa Val Arg Val Gln Thr Arg Gly Ser Ala Asp Pro Ala Gln Leu Arg  
     1                      5                      10                      15  
 Arg His Pro Gly Tyr Lys Arg Thr Ala Ser Ala Thr Leu Ser Asp Pro  
                     20                      25                      30  
 Ala Ala Ala Ala Met Gln Pro Ser Ser Leu Leu Pro Leu Ala Leu Cys  
                     35                      40                      45  
 Leu Leu Ala Ala Pro Ala Ser Ala Leu Val Arg Ile Pro Leu His Lys  
     50                      55                      60  
 Phe Thr Ser Ile Arg Arg Thr Met Ser Glu Val Gly Gly Ser Val Glu  
     65                      70                      75                      80



## 5541

Asp	Leu	Ile	Ala	Lys	Gly	Pro	Val	Ser	Lys	Tyr	Ser	Gln	Ala	Val	Pro	85	90	95
Ala	Val	Thr	Glu	Gly	Pro	Ile	Pro	Glu	Val	Leu	Lys	Asn	Tyr	Met	Asp	100	105	110
Ala	Gln	Tyr	Tyr	Gly	Glu	Ile	Gly	Ile	Gly	Thr	Pro	Pro	Gln	Cys	Phe	115	120	125
Thr	Val	Val	Phe	Asp	Thr	Gly	Ser	Ser	Asn	Leu	Trp	Val	Pro	Ser	Ile	130	135	140
His	Cys	Lys	Leu	Leu	Asp	Ile	Ala	Cys	Trp	Ile	His	His	Lys	Tyr	Asn	145	150	155
Ser	Asp	Lys	Ser	Ser	Thr	Tyr	Val	Lys	Asn	Gly	Thr	Ser	Phe	Asp	Ile	165	170	175
His	Tyr	Gly	Ser	Gly	Ser	Leu	Ser	Gly	Tyr	Leu	Ser	Gln	Asp	Thr	Val	180	185	190
Ser	Val	Pro	Cys	Gln	Ser	Ala	Ser	Ser	Ala	Ser	Ala	Leu	Gly	Gly	Val	195	200	205
Lys	Val	Glu	Arg	Gln	Val	Phe	Gly	Glu	Ala	Thr	Lys	Gln	Pro	Gly	Ile	210	215	220
Thr	Phe	Ile	Ala	Ala	Lys	Phe	Asp	Gly	Ile	Leu	Gly	Met	Ala	Tyr	Pro	225	230	235
Arg	Ile	Ser	Val	Asn	Asn	Val	Leu	Pro	Val	Phe	Asp	Asn	Leu	Met	Gln	245	250	255
Gln	Lys	Leu	Val	Asp	Gln	Asn	Ile	Phe	Ser	Phe	Tyr	Leu	Ser	Arg	Asp	260	265	270
Pro	Asp	Ala	Gln	Pro	Gly	Gly	Glu	Leu	Met	Leu	Gly	Gly	Thr	Asp	Ser	275	280	285
Lys	Tyr	Tyr	Lys	Gly	Ser	Leu	Ser	Tyr	Leu	Asn	Val	Thr	Arg	Lys	Ala	290	295	300
Tyr	Trp	Gln	Val	His	Leu	Asp	Gln	Val	Glu	Val	Ala	Ser	Gly	Leu	Thr	305	310	315
Leu	Cys	Lys	Glu	Gly	Cys	Glu	Ala	Ile	Val	Asp	Thr	Gly	Thr	Ser	Leu	325	330	335
Met	Val	Gly	Pro	Val	Asp	Glu	Val	Arg	Xaa	Leu	Gln	Lys	Ala	Ile	Gly	340	345	350

## 5542

Ala Val Pro Leu Ile Gln Gly Glu Tyr Met Ile Pro Cys Glu Lys Val  
           355                          360                          365

Ser Thr Leu Pro Ala Ile Thr Leu Lys Leu Gly Gly Lys Gly Tyr Lys  
       370                          375                          380

Leu Ser Pro Glu Asp Tyr Thr Leu Lys Val Ser Gln Ala Gly Lys Thr  
       385                          390                          395                          400

Xaa Cys Leu Ser

<210> 6308

<211> 40

<212> PRT

<213> Homo sapiens

<400> 6308

Asn Pro Val Ser Thr Lys Ile Gln Lys Ile Ser Trp Ala Trp Trp Arg  
       1                          5                          10                          15

Thr Pro Val Val Pro Ala Thr Leu Glu Ala Glu Ala Gly Glu Ser Leu  
                           20                          25                          30

Lys Pro Arg Arg Arg Arg Leu Gln  
                           35                          40

<210> 6309

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5543

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (52)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6309

Thr	Ala	His	Ser	Gly	Cys	Cys	Ile	Glu	Lys	Arg	Met	Trp	Trp	Thr	Asp
1				5					10					15	

Ile	Glu	Ala	Trp	Lys	Pro	Asp	Arg	Xaa	Ile	Ala	Ile	Thr	Gln	Lys	Arg
			20					25					30		

Gly	Asp	Gly	Ser	Leu	Asp	Leu	Leu	Glu	Ala	Val	Xaa	Cys	Pro	Thr	Leu
		35					40					45			

Gln	Leu	Xaa	Xaa	Xaa	Glu	Lys	Gly	Pro	Glu	Arg	Leu	Ile	Leu	Ile	Thr
	50					55					60				

Asn	Gly	Pro	Met	Met
65				

&lt;210&gt; 6310

&lt;211&gt; 206

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (178)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6310

Arg	Val	Asp	Pro	Arg	Val	Arg	Pro	Arg	Val	Arg	Pro	Arg	Val	Arg	Gly
1				5				10					15		

Ala	Arg	Arg	Arg	Ser	Ser	Gly	Ser	Gly	Ser	Met	Ser	Ala	Gly	Gly	Ala
				20				25					30		

Ser	Val	Pro	Pro	Pro	Pro	Asn	Pro	Ala	Val	Ser	Phe	Pro	Pro	Pro	Arg
		35					40				45				

Val	Thr	Leu	Pro	Ala	Gly	Pro	Asp	Ile	Leu	Arg	Thr	Tyr	Ser	Gly	Ala
	50					55					60				

## 5544

Phe Val Cys Leu Glu Ile Leu Phe Gly Gly Leu Val Trp Ile Leu Val  
 65 70 75 80  
 Ala Ser Ser Asn Val Pro Leu Pro Leu Leu Gln Gly Trp Val Met Phe  
 85 90 95  
 Val Ser Val Thr Ala Phe Phe Phe Ser Leu Leu Phe Leu Gly Met Phe  
 100 105 110  
 Leu Ser Gly Met Val Ala Gln Ile Asp Ala Asn Trp Asn Phe Leu Asp  
 115 120 125  
 Phe Ala Tyr His Phe Thr Val Phe Val Phe Tyr Phe Gly Ala Phe Leu  
 130 135 140  
 Leu Glu Ala Ala Ala Thr Ser Leu His Asp Leu His Cys Asn Thr Thr  
 145 150 155 160  
 Ile Thr Gly Gln Pro Leu Leu Ser Asp Asn Gln Tyr Asn Ile Asn Val  
 165 170 175  
 Ala Xaa Ser Ile Phe Ala Phe Met Thr Thr Ala Cys Tyr Gly Cys Lys  
 180 185 190  
 Phe Gly Ser Gly Phe Thr Lys Met Ala Thr Arg Asn Thr Ser  
 195 200 205

&lt;210&gt; 6311

&lt;211&gt; 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (58)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6311

## 5545

Ala Phe Pro Trp Asp Leu Trp Pro Ser Trp Arg Gln Glu Pro Ser Ser  
 1 5 10 15

Pro Ser Thr Asp Trp Val Leu Leu Ala Leu Ala Leu Val Asn Leu Leu  
 20 25 30

Leu Ser Leu Pro Ala Pro Trp Ala Xaa Phe Leu Leu Cys His Ser Leu  
 35 40 45

Gly Pro Thr Val Xaa Arg Gly Leu Leu Xaa Thr Gly Thr  
 50 55 60

<210> 6312

<211> 169

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6312

Pro Ser Leu Ala Val Ala Lys Ile Ile Ile Ile Glu Phe Asn Pro Met  
 1 5 10 15

Tyr Pro Lys Xaa Asn Asp Ile Ala Leu Met Lys Leu Gln Phe Pro Leu  
 20 25 30

Thr Phe Ser Gly Thr Val Arg Pro Ile Cys Leu Pro Phe Phe Asp Glu  
 35 40 45

Glu Leu Thr Pro Ala Thr Pro Leu Trp Ile Ile Gly Trp Gly Phe Thr  
 50 55 60

Lys Gln Asn Gly Gly Lys Met Ser Asp Ile Leu Leu Gln Ala Ser Val  
 65 70 75 80

Gln Val Ile Asp Ser Thr Arg Cys Asn Ala Asp Asp Ala Tyr Gln Gly  
 85 90 95

Glu Val Thr Glu Lys Met Met Cys Ala Gly Ile Pro Glu Gly Gly Val  
 100 105 110

Asp Thr Cys Gln Gly Asp Ser Gly Gly Pro Leu Met Tyr Gln Ser Asp  
 115 120 125

Gln Trp His Val Val Gly Ile Val Ser Trp Gly Tyr Gly Cys Gly Gly  
 130 135 140

## 5546

Pro Ser Thr Pro Gly Val Tyr Thr Lys Val Ser Ala Tyr Leu Asn Trp  
 145 150 155 160

Ile Tyr Asn Val Trp Lys Ala Glu Leu  
 165

<210> 6313

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6313

Arg Phe Ile Leu Lys Ser Val His Ile Gln His Lys Glu Arg Lys Asn  
 1 5 10 15

Leu Thr Asn Leu Lys Ser Ala Val Ile Leu Ala His Val Asn Thr Ile  
 20 25 30

Leu Ile Ser Trp Phe Ile Tyr Phe Leu Met Phe Val Ser Ile Tyr Ile  
 35 40 45

Tyr Ile Tyr Ile Tyr Ile Tyr Ile Tyr Ile Tyr Ile Tyr Ile Tyr Ile  
 50 55 60

Tyr Ile Tyr Ile Tyr Ile Xaa Ile Pro Ser Ser Lys Trp Pro Val Ile  
 65 70 75 80

Ala Cys Lys His Phe Phe  
 85

<210> 6314

<211> 106

<212> PRT

<213> Homo sapiens

<400> 6314

Gly Gly Tyr Ser Val Asp Ser Pro Thr Leu Thr Arg Phe Phe Thr Phe  
 1 5 10 15

His Phe Ile Leu Pro Phe Ile Ile Ala Ala Leu Ala Ala Leu His Leu  
 20 25 30

## 5547

Leu Phe Leu His Glu Thr Gly Ser Asn Asn Pro Leu Gly Ile Thr Ser  
           35                          40                          45  
 His Ser Asp Lys Ile Thr Phe His Pro Tyr Tyr Thr Ile Lys Asp Ala  
           50                          55                          60  
 Leu Gly Leu Leu Leu Phe Leu Leu Ser Leu Met Thr Leu Thr Leu Phe  
           65                          70                          75                          80  
 Ser Pro Asp Leu Leu Gly Asp Pro Asp Asn Tyr Thr Leu Ala Asn Pro  
                           85                          90                          95  
 Leu Asn Thr Pro Pro His Ile Lys Pro Glu  
                           100                          105

&lt;210&gt; 6315

&lt;211&gt; 101

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6315

Asp Tyr Ala Arg Pro Lys Tyr Tyr Phe Gln Ile Glu Pro Ser Ser Trp  
   1                          5                          10                          15  
 Val Ala Val Tyr Asn Thr Gln Val Glu Phe Gly Lys Cys Ser Pro Ser  
           20                          25                          30  
 Leu Pro Phe Phe Thr Val Asp Ala Ser Ala Ser Phe Leu Ser Leu His  
           35                          40                          45  
 Thr His Cys Pro Thr Ala Gly Phe Pro Phe Ser Phe Arg Ala Val Ala  
           50                          55                          60  
 Val Pro Phe Leu His Ser His Pro Ser Gln Trp Gln Pro Pro Leu Pro  
           65                          70                          75                          80  
 Ser Cys Ile Leu Asn Pro Thr Leu Ile Ile Cys Leu Asp Phe Ala Phe  
                           85                          90                          95  
 Leu Pro Ala Val Leu  
           100

&lt;210&gt; 6316

&lt;211&gt; 132

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

## 5548

&lt;400&gt; 6316

Gln Arg His Ala Gly Glu Thr Gly Ala Ala Thr Ala Arg Arg Glu Ser  
 1                      5                      10                      15  
 Leu Pro Gln Ala Asn Asn Pro Glu Gln Leu Cys Lys Gln Arg Cys Ile  
                     20                      25                      30  
 Asn Glu Ala Ser Trp Thr Met Lys Arg Val Leu Ser Cys Val Pro Glu  
                     35                      40                      45  
 Pro Thr Val Val Met Ala Ala Arg Ala Leu Cys Met Leu Gly Leu Val  
                     50                      55                      60  
 Leu Ala Leu Leu Ser Ser Ser Ser Ala Glu Glu Tyr Val Gly Leu Ser  
 65                      70                      75                      80  
 Ala Asn Gln Cys Ala Val Pro Ala Lys Asp Arg Val Asp Cys Gly Tyr  
                     85                      90                      95  
 Pro His Val Thr Pro Lys Glu Cys Asn Asn Arg Gly Cys Cys Phe Asp  
                     100                      105                      110  
 Ser Arg Ile Pro Gly Val Pro Trp Cys Phe Lys Pro Leu Gln Glu Ala  
                     115                      120                      125  
 Glu Cys Thr Phe  
 130

&lt;210&gt; 6317

&lt;211&gt; 105

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6317

Leu Xaa Arg Leu Gln Xaa Pro Val Arg Asn Ser Arg Val Asp Pro Arg  
 1                      5                      10                      15  
 Val Gly Val Pro Glu Pro Thr Val Val Met Ala Ala Arg Ala Leu Cys



## 5549

	20		25		30	
Met	Leu	Gly	Leu	Val	Leu	Ala
	35		40		45	
			Leu	Leu	Ser	Ser
				Ser	Ser	Ser
					Ala	Glu
						Glu
Tyr	Val	Gly	Leu	Ser	Ala	Asn
	50		55		60	
					Pro	Ala
						Lys
						Asp
						Arg
Val	Asp	Cys	Gly	Tyr	Pro	His
	65		70		75	
						Val
						Thr
						Pro
						Lys
						Glu
						Cys
						Asn
						Asn
						Arg
Gly	Cys	Cys	Phe	Asp	Ser	Arg
			85			Ile
						Pro
						Gly
						Val
						Pro
						Trp
						Cys
						Phe
						Lys
Pro	Leu	Gln	Glu	Ala	Glu	Cys
	100					Thr
						Phe

&lt;210&gt; 6318

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6318

Leu	Leu	Leu	Leu	Leu	Cys	Lys	Gly	Thr	Tyr	Ile	Pro	Gln	Tyr	Thr	Pro
1				5					10					15	
Val	Pro	Pro	Thr	Ala	Val	Ser	Ile	Glu	Gly	Val	Val	Ala	Asp	Thr	Ser
			20					25					30		
Pro	Gln	Thr	Val	Ala	Pro	Ser	Ser	Gln	Asp	Thr	Ser	Gly	Gln	Gln	Gln
			35				40					45			
Gln	Ile	Ala	Val	Asp	Thr	Ser	Asn	Glu	His	Ala	Pro	Ala	Tyr	Ser	Tyr
	50					55					60				
Gln	Gln	Ser	Lys	Pro											
	65														

&lt;210&gt; 6319

&lt;211&gt; 96

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6319

Thr	Phe	Lys	Phe	Ala	Asn	Gln	Phe	Leu	Ala	Arg	Lys	His	Phe	Cys	Tyr
1				5					10					15	

## 5550

Thr Asn Ile Leu Leu Ser Leu Pro Lys Ala Pro Pro Met His Ser Phe  
                   20                  25                  30  
 Asn Lys Ile Gln Ser Leu Tyr Phe Lys Val Ile Leu Val Met Lys Phe  
           35                  40                  45  
 Tyr Met Gln Arg Glu Lys Val Thr Glu Thr Glu Asn Lys Ser Lys Gly  
           50                  55                  60  
 Lys Glu Tyr Tyr Gly Ile Lys Leu Ser Lys Gln Phe Trp Trp Lys Val  
           65                  70                  75                  80  
 Lys Pro Val Ser Ala Pro His Gln Gly Cys Gly Pro Pro Arg His Ala  
                   85                  90                  95

&lt;210&gt; 6320

&lt;211&gt; 285

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (280)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6320

Gly Arg Ala Pro Gly Arg Arg Val Gly Leu Arg Cys Ala Arg Arg Thr  
   1                  5                  10                  15  
 Ser Glu Ala Ala Gly Ser Gly Ala Gly Pro Pro Gly Pro Leu Gln Gly  
                   20                  25                  30  
 Arg Ser Gly Ser Ser Trp Ala Pro Arg Pro Gly Arg Arg Thr Glu Glu  
           35                  40                  45  
 Arg Arg Lys Gly Ala Gly Gly Thr Arg Pro Arg Pro Ala Ala Ala Met  
           50                  55                  60  
 Asn Ser Asn Val Glu Asn Leu Pro Pro His Ile Ile Arg Leu Val Tyr  
           65                  70                  75                  80  
 Lys Glu Val Thr Thr Leu Thr Ala Asp Pro Pro Asp Gly Ile Lys Val  
                   85                  90                  95  
 Phe Pro Asn Glu Glu Asp Leu Thr Asp Leu Gln Val Thr Ile Glu Gly  
           100                  105                  110

## 5551

Pro Glu Gly Thr Pro Tyr Ala Gly Gly Leu Phe Arg Met Lys Leu Leu  
 115 120 125  
 Leu Gly Lys Asp Phe Pro Ala Ser Pro Pro Lys Gly Tyr Phe Leu Thr  
 130 135 140  
 Lys Ile Phe His Pro Asn Val Gly Ala Asn Gly Glu Ile Cys Val Asn  
 145 150 155 160  
 Val Leu Lys Arg Asp Trp Thr Ala Glu Leu Gly Ile Arg His Val Leu  
 165 170 175  
 Leu Thr Ile Lys Cys Leu Leu Ile His Pro Asn Pro Glu Ser Ala Leu  
 180 185 190  
 Asn Glu Glu Ala Gly Arg Leu Leu Leu Glu Asn Tyr Glu Glu Tyr Ala  
 195 200 205  
 Ala Arg Ala Arg Leu Leu Thr Glu Ile His Gly Gly Ala Gly Gly Pro  
 210 215 220  
 Ser Gly Arg Ala Glu Ala Gly Arg Ala Leu Ala Ser Gly Thr Glu Ala  
 225 230 235 240  
 Ser Ser Thr Asp Pro Gly Ala Pro Gly Gly Pro Gly Gly Ala Glu Gly  
 245 250 255  
 Pro Met Ala Lys Lys His Ala Gly Glu Arg Asp Lys Lys Leu Ala Ala  
 260 265 270  
 Lys Lys Lys Thr Asp Lys Lys Xaa Ala Leu Arg Arg Leu  
 275 280 285

&lt;210&gt; 6321

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6321

His Glu Arg Met Leu Asn Leu Thr Asp Arg Gln Val Lys Ile Trp Phe  
 1 5 10 15  
 Gln Asn Arg Arg Met Lys Glu Lys Lys Leu Asn Arg Asp Arg Leu Gln  
 20 25 30  
 Tyr Phe Thr Gly Asn Pro Leu Phe  
 35 40

5552

&lt;210&gt; 6322

&lt;211&gt; 118

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6322

Gly	Ala	Glu	Arg	Arg	Gln	Xaa	Val	Val	Lys	Lys	Ala	Asp	Met	Ile	Asn
1				5					10					15	

Xaa	Asn	Met	Thr	His	Gln	Val	Gln	Ala	Glu	Arg	Asp	Ala	Leu	Ala	Leu
			20					25					30		

Ser	Lys	Ser	Pro	Phe	Ile	Xaa	His	Leu	Tyr	Tyr	Ser	Leu	Gln	Ser	Ala
	35						40					45			

Asn	Asn	Val	Tyr	Leu	Val	Met	Glu	Tyr	Leu	Ile	Gly	Gly	Asp	Val	Lys
	50					55					60				

Ser	Leu	Leu	His	Ile	Tyr	Gly	Tyr	Phe	Asp	Glu	Glu	Met	Ala	Val	Lys
65					70					75					80

Tyr	Ile	Ser	Glu	Val	Ala	Leu	Ala	Leu	Asp	Tyr	Leu	His	Arg	His	Gly
				85					90					95	

Ile	Ile	His	Arg	Asp	Leu	Lys	Pro	Asp	Asn	Met	Leu	Ile	Ser	Asn	Glu
			100					105						110	

Gly	His	Ile	Lys	Leu	Thr
					115

&lt;210&gt; 6323

&lt;211&gt; 405

5553

<212> PRT

<213> Homo sapiens

<220>

&lt;221&gt; SITE

&lt;222&gt; (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6323

Met	Glu	Ala	Glu	Thr	Pro	Ser	Thr	Glu	Val	Pro	Pro	Asp	Pro	Glu	Pro
1					5				10					15	
Gly	Val	Pro	Leu	Thr	Pro	Pro	Ser	Gln	His	Gln	Glu	Ala	Gly	Ala	Gly
			20					25					30		
Asp	Leu	Cys	Ala	Leu	Cys	Gly	Glu	His	Leu	Tyr	Val	Leu	Glu	Arg	Leu
		35					40					45			
Cys	Val	Asn	Gly	His	Phe	Phe	His	Arg	Ser	Cys	Phe	Arg	Cys	His	Thr
	50					55					60				
Cys	Glu	Ala	Thr	Leu	Trp	Pro	Gly	Gly	Tyr	Glu	Gln	His	Pro	Gly	Asp
65					70					75					80
Gly	His	Phe	Tyr	Cys	Leu	Gln	His	Leu	Pro	Gln	Thr	Asp	His	Lys	Xaa
				85					90					95	
Glu	Gly	Ser	Asp	Arg	Gly	Pro	Glu	Ser	Pro	Glu	Leu	Pro	Thr	Pro	Ser
			100					105					110		
Glu	Asn	Ser	Met	Pro	Pro	Gly	Leu	Ser	Thr	Pro	Thr	Ala	Ser	Gln	Glu
		115					120					125			
Gly	Ala	Gly	Pro	Val	Pro	Asp	Pro	Ser	Gln	Pro	Thr	Arg	Arg	Gln	Ile
	130					135					140				
Arg	Leu	Ser	Ser	Pro	Glu	Arg	Gln	Arg	Leu	Ser	Ser	Leu	Asn	Leu	Thr
145				150						155					160
Pro	Asp	Pro	Glu	Met	Glu	Pro	Pro	Pro	Lys	Pro	Pro	Arg	Ser	Cys	Ser
			165						170					175	
Ala	Leu	Ala	Arg	His	Ala	Leu	Glu	Ser	Ser	Phe	Val	Gly	Trp	Gly	Leu
		180						185					190		
Pro	Val	Gln	Ser	Pro	Gln	Ala	Leu	Val	Ala	Met	Glu	Lys	Glu	Glu	Lys
		195					200					205			
Glu	Ser	Pro	Phe	Ser	Ser	Glu	Glu	Glu	Glu	Glu	Asp	Val	Pro	Leu	Asp
	210					215					220				

## 5554

Ser Asp Val Glu Gln Ala Leu Gln Thr Phe Ala Lys Thr Ser Gly Thr  
 225 230 235 240  
 Met Asn Asn Tyr Pro Thr Trp Arg Arg Thr Leu Leu Arg Arg Ala Lys  
 245 250 255  
 Glu Glu Glu Met Lys Arg Phe Cys Lys Ala Gln Thr Ile Gln Arg Arg  
 260 265 270  
 Leu Asn Glu Ile Glu Ala Ala Leu Arg Glu Leu Glu Ala Glu Gly Val  
 275 280 285  
 Lys Leu Glu Leu Ala Leu Arg Arg Gln Ser Ser Ser Pro Glu Gln Gln  
 290 295 300  
 Lys Lys Leu Trp Val Gly Gln Leu Leu Gln Leu Val Asp Lys Lys Asn  
 305 310 315 320  
 Ser Leu Val Ala Glu Glu Ala Glu Leu Met Ile Thr Val Gln Glu Leu  
 325 330 335  
 Asn Leu Glu Glu Lys Gln Trp Gln Leu Asp Gln Glu Leu Arg Gly Tyr  
 340 345 350  
 Met Asn Arg Glu Glu Asn Leu Lys Thr Ala Ala Asp Arg Gln Ala Glu  
 355 360 365  
 Asp Gln Val Leu Arg Lys Leu Val Asp Leu Val Asn Gln Arg Asp Ala  
 370 375 380  
 Leu Ile Arg Phe Gln Glu Glu Arg Arg Leu Ser Glu Leu Ala Leu Gly  
 385 390 395 400  
 Thr Gly Ala Gln Gly  
 405

&lt;210&gt; 6324

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6324

Leu Ile Lys Trp Lys Ile Ser Lys Glu Cys Lys Ile Ile Trp Gly Glu  
 1 5 10 15  
 Ser Cys Lys Met Trp Ser Phe Phe Thr Thr Asn Ile Phe Ser Pro Ser  
 20 25 30  
 Asp Val Tyr Met Phe Tyr Asp Leu Lys Tyr Gln Thr Met Val Cys Asp

## 5555

35                                      40                                      45  
 Ile Met Gly Leu Pro Leu Ala Gln Lys Arg Leu Leu Leu Ser Ser Ala  
     50                                      55                                      60  
 Cys Leu Met Thr Ile Gly Trp Ser Leu Leu Ser Leu Asn Phe Tyr Phe  
     65                                      70                                      75                                      80  
 Leu Ile Ile Leu Val Ala Ile Arg Leu Lys Arg Glu Cys Thr Trp Glu  
                                     85                                      90                                      95  
 Arg Ile Leu Lys Thr Asp Gln Ser Val Lys Cys His Val Leu Glu Lys  
                                     100                                      105                                      110  
 Ile Lys

<210> 6325  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 6325  
 Asn Thr Ala Thr Tyr Pro Gly Asn Met Lys Ile Leu Phe Val Glu Pro  
     1                                      5                                      10                                      15  
 Ala Ile Phe Leu Ser Ala Phe Ala Met Thr Leu Thr Gly Pro Leu Thr  
                                     20                                      25                                      30  
 Thr Gln Tyr Val Tyr Arg Arg Ile Trp Glu Glu Thr Gly Asn Tyr Thr  
                                     35                                      40                                      45  
 Phe Ser Ser Asp Ser Asn Ile Ser Glu Cys Glu Lys Asn Lys Ser Ser  
     50                                      55                                      60  
 Pro Ile Phe Ala Phe Gln Glu Val Arg Asn Tyr Asn Ile His Ser Ile  
     65                                      70                                      75                                      80

<210> 6326  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 6326

## 5556

Phe Met Ile Trp Asn Ser Ile His Pro Phe Ser Gly Ile Lys Thr Phe  
 1 5 10 15

Leu Asp Phe Phe Arg Ile Gly Ser Glu Leu Val Tyr Tyr Leu Ala Phe  
 20 25 30

Ser Phe

<210> 6327

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6327

Cys Arg Leu Val Lys Ala Ser Leu Asp Glu Lys Ser Ala Thr Gly Trp  
 1 5 10 15

Pro Pro Val Cys Phe Ala Met Arg Ile Asn Leu Leu Phe Val Cys Leu  
 20 25 30

Lys Thr Pro Ile Ser Glu Ser Ser Val Leu Met Phe Val Glu His Asn  
 35 40 45

Leu Ile Lys Asn Ile Lys Ile Phe Thr Leu Ala Phe Thr Leu Thr Val  
 50 55 60

Xaa Gly Gly Xaa  
 65

<210> 6328

<211> 25

<212> PRT

<213> Homo sapiens

<400> 6328

Gly Leu Leu Leu Val Pro Asn Ser Cys Arg Pro Gly Asp Pro Leu Val



## 5557

1                      5                      10                      15  
 Leu Glu Arg Pro Pro Pro Arg Trp Ser  
                          20                      25  
  
 <210> 6329  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (79)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 6329  
 Lys Gly Val Pro Arg Ala Gln Gln Gly Ala Lys Ser Gly Asp Ile Ala  
   1                      5                      10                      15  
  
 Ser Glu His Pro Thr Cys Ala Thr His Val His Pro Pro Thr His Thr  
                          20                      25                      30  
  
 His Ala His Ser His Ala His Ser His Ala His Ser His Ala His Ser  
                          35                      40                      45  
  
 His Ala His Ser His Ala His Ser His Ala His Ser His Ala His Ser  
                          50                      55                      60  
  
 His Ala His Thr Ala Trp Thr Leu Phe Pro Leu Cys Pro Trp Xaa His  
   65                      70                      75                      80  
  
 Thr Pro Ser Lys Pro Leu Thr Phe Ile Ser Pro Cys Val Phe Ser Lys  
                          85                      90                      95  
  
 Lys Val Tyr Gln Ala Arg Pro Pro Gly Gly  
                          100                      105

<210> 6330  
 <211> 147  
 <212> PRT  
 <213> Homo sapiens

<400> 6330  
 Asn Phe Pro Leu Pro Gly Gly Glu Lys Gln Arg Val Ala Ile Ala Arg  
   1                      5                      10                      15  
  
 Ala Ile Leu Lys Asp Pro Pro Val Ile Leu Tyr Asp Glu Ala Thr Ser

## 5558

20 25 30  
 Ser Leu Asp Ser Ile Thr Glu Glu Thr Ile Leu Gly Ala Met Lys Asp  
 35 40 45  
 Val Val Lys His Arg Thr Ser Ile Phe Ile Ala His Arg Leu Ser Thr  
 50 55 60  
 Val Val Asp Ala Asp Glu Ile Ile Val Leu Asp Gln Gly Lys Val Ala  
 65 70 75 80  
 Glu Arg Gly Thr His His Gly Leu Leu Ala Asn Pro His Ser Ile Tyr  
 85 90 95  
 Ser Glu Met Trp His Thr Gln Ser Ser Arg Val Gln Asn His Asp Asn  
 100 105 110  
 Pro Lys Trp Glu Ala Lys Lys Glu Asn Ile Ser Lys Glu Glu Glu Arg  
 115 120 125  
 Lys Lys Leu Gln Glu Glu Ile Val Asn Ser Val Lys Gly Cys Gly Asn  
 130 135 140  
 Cys Ser Cys  
 145

&lt;210&gt; 6331

&lt;211&gt; 176

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (167)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6331

Cys Gln Gln Leu Met Asp Leu Thr Ala Asn Leu Asn Leu Leu Trp Ser  
 1 5 10 15  
 Ala Pro Phe Gln Ile Leu Met Ala Val Tyr Leu Leu Trp Gln Glu Leu  
 20 25 30  
 Gly Pro Ala Val Leu Ala Gly Val Ala Val Leu Val Phe Val Ile Pro  
 35 40 45  
 Ile Asn Ala Leu Ala Ala Thr Lys Ile Lys Lys Leu Lys Val Ser Leu  
 50 55 60

## 5559

Ala Thr Leu Cys Val Tyr Phe Leu Leu Asp Glu Gly Asn Ile Leu Thr  
 65 70 75 80

Ala Thr Lys Val Phe Thr Ser Met Ser Leu Phe Asn Ile Leu Arg Ile  
 85 90 95

Pro Leu Phe Glu Leu Pro Thr Val Ile Ser Ala Val Val Gln Thr Lys  
 100 105 110

Ile Ser Leu Gly Arg Leu Glu Asp Phe Leu Asn Thr Glu Glu Leu Leu  
 115 120 125

Pro Gln Ser Ile Glu Thr Asn Tyr Thr Gly Asp His Ala Ile Gly Phe  
 130 135 140

Thr Asp Ala Ser Phe Ser Trp Asp Lys Thr Gly Met Pro Val Leu Lys  
 145 150 155 160

Glu Ala Leu Trp Leu Met Xaa Leu Asn Lys Pro Gly Phe Lys Ile Ala  
 165 170 175

&lt;210&gt; 6332

&lt;211&gt; 129

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6332

Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Ala  
 1 5 10 15

Lys Cys Tyr His Glu Arg Arg Lys Leu Asp Phe Phe Val Leu Ile Met  
 20 25 30

Ala Ser Thr Cys Thr Phe Pro Glu Trp Ser Leu Leu Arg Pro Phe Leu  
 35 40 45

Val Pro Phe Gln Ser Cys Pro His His Pro Ala Pro Leu Ala Ser Val  
 50 55 60

His Ser Gly Pro Gln Pro Arg Pro Gly Leu Leu Cys Ser Ala Pro Thr  
 65 70 75 80

Ala His His Pro Ser Cys Phe Pro Glu Pro Asp Pro Val Pro Pro Thr  
 85 90 95

Gly Asn Gln Gly Cys Ala Leu Pro Cys Pro Arg Ser Pro Gly Leu Pro

## 5560

100 105 110  
 Val Leu Ser Leu Leu Ile Ile Ile Asn Ser Gly Phe Gln Leu Gln Pro  
 115 120 125

Arg

<210> 6333

<211> 93

<212> PRT .

<213> Homo sapiens

<400> 6333

Asp Phe Gln Ile Asp Lys Cys Thr Gly Tyr Val Glu Val Gln Lys Ser  
 1 5 10 15

Ile Thr Val Leu Gln His Ile Tyr Leu Gly Asn Leu Lys His Val Leu  
 20 25 30

Leu Met Tyr Gln Ala Val Cys Cys Ser Gln Arg Asp Pro Ile Ser Ala  
 35 40 45

Leu Gly Ile Leu Gly Glu Asn Met Tyr Lys Glu Ile Val Leu Ala His  
 50 55 60

Ser Ser Lys Gly Ser Asp Gln Gly His Leu Ala Leu Arg Gly Asn Leu  
 65 70 75 80

Gly Lys Val Pro Trp Arg Met Arg Leu Leu Leu Lys Ser  
 85 90

<210> 6334

<211> 76

<212> PRT

<213> Homo sapiens

<400> 6334

Leu Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg  
 1 5 10 15

Val Arg Asn Arg Glu Arg Lys Gly Gln Arg Trp Lys Ile Leu Phe Tyr  
 20 25 30

Cys Phe Asp Phe Arg His Pro Glu Arg Val Thr Asn Phe Lys Thr Leu  
 35 40 45

## 5561

Asn Lys Val Ala Leu Cys Trp Gly Arg Asn Leu Ala Ile Leu Val Thr  
 50 55 60

Leu Lys Ser Arg Tyr Pro Phe Ser Leu Glu Ser Pro  
 65 70 75

<210> 6335

<211> 349

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (340)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6335

Arg Asn Val Gln Leu Leu Thr Ala Ala Glu Thr Trp Glu Pro Arg Gly  
 1 5 10 15

Pro Leu Ser Ser Gln Pro Pro Pro Pro Ser Ser Arg Ala Gly Pro Pro  
 20 25 30

Arg Pro Arg Leu Leu Leu Thr Pro Arg Pro Gly Ala Arg Phe Cys Gly  
 35 40 45

Ser Ile Ile Leu Cys His Tyr Glu Met Ser Ser Leu Gly Ala Ser Phe  
 50 55 60

Val Gln Ile Lys Phe Asp Asp Leu Gln Phe Phe Glu Asn Cys Gly Gly  
 65 70 75 80

Gly Ser Phe Gly Ser Val Tyr Arg Ala Lys Trp Ile Ser Gln Asp Lys  
 85 90 95

Glu Val Ala Val Lys Lys Leu Leu Lys Ile Glu Lys Glu Ala Glu Ile  
 100 105 110

Leu Ser Val Leu Ser His Arg Asn Ile Ile Gln Phe Tyr Gly Val Ile  
 115 120 125

Leu Glu Pro Pro Asn Tyr Gly Ile Val Thr Glu Tyr Ala Ser Leu Gly  
 130 135 140

Ser Leu Tyr Asp Tyr Ile Asn Ser Asn Arg Ser Glu Glu Met Asp Met  
 145 150 155 160

Asp His Ile Met Thr Trp Ala Thr Asp Val Ala Lys Gly Met His Tyr  
 165 170 175

## 5562

Leu His Met Glu Ala Pro Val Lys Val Ile His Arg Asp Leu Lys Ser  
                   180                  185                  190  
 Arg Asn Val Val Ile Ala Ala Asp Gly Val Leu Lys Ile Cys Asp Phe  
                   195                  200                  205  
 Gly Ala Ser Arg Phe His Asn His Thr Thr His Met Ser Leu Val Gly  
                   210                  215                  220  
 Thr Phe Pro Trp Met Ala Pro Glu Val Ile Gln Ser Leu Pro Val Ser  
                   225                  230                  235                  240  
 Glu Thr Cys Asp Thr Tyr Ser Tyr Gly Val Val Leu Trp Glu Met Leu  
                   245                  250                  255  
 Thr Arg Glu Val Pro Phe Lys Gly Leu Glu Gly Leu Gln Val Ala Trp  
                   260                  265                  270  
 Leu Val Val Glu Lys Asn Glu Arg Leu Thr Ile Pro Ser Ser Cys Pro  
                   275                  280                  285  
 Arg Ser Phe Ala Glu Leu Leu His Gln Cys Trp Glu Ala Asp Ala Lys  
                   290                  295                  300  
 Lys Arg Pro Ser Phe Lys Gln Ile Ile Ser Ile Leu Glu Ser Met Ser  
                   305                  310                  315                  320  
 Asn Asp Thr Ser Leu Leu Thr Ser Val Thr His Ser Tyr Thr Thr Arg  
                   325                  330                  335  
 Arg Ser Gly Xaa Ala Lys Leu Arg Gln Leu Leu Arg Gly  
                   340                  345

&lt;210&gt; 6336

&lt;211&gt; 65

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6336

His Phe Gly Arg Pro Arg Gln Ala Asp His Leu Arg Ser Gly Val Gln  
   1                  5                  10                  15  
 Asn Gln Pro Gly Gln Asp Gly Glu Thr Pro Ser Leu Leu Lys Ile Gln  
                   20                  25                  30  
 Lys Lys Ile Ser Arg Ala Trp Trp His Val Pro Val Ile Pro Ala Thr  
                   35                  40                  45

## 5563

Trp Glu Thr Glu Ala Gly Glu Leu Leu Glu Pro Gly Arg Arg Arg Leu  
 50 55 60

Gln  
 65

<210> 6337

<211> 104

<212> PRT

<213> Homo sapiens

<400> 6337

Ser Arg Asp Trp Val Thr Asn Asn Thr Arg Thr Lys Leu Arg Asp His  
 1 5 10 15

Tyr Ser Ser Ile Ser Pro Ser Phe His Lys Thr Ala Val Lys Met Phe  
 20 25 30

Asp Ile Lys Ala Trp Ala Glu Tyr Val Val Glu Trp Ala Ala Lys Asp  
 35 40 45

Pro Tyr Gly Phe Leu Thr Thr Val Ile Leu Ala Leu Thr Pro Leu Phe  
 50 55 60

Leu Ala Ser Ala Val Leu Ser Trp Lys Leu Ala Lys Met Ile Glu Ala  
 65 70 75 80

Arg Glu Lys Glu Gln Lys Lys Lys Gln Lys Arg Gln Glu Asn Ile Ala  
 85 90 95

Lys Ala Lys Arg Leu Lys Lys Asp  
 100

<210> 6338

<211> 146

<212> PRT

<213> Homo sapiens

<400> 6338

Thr His Trp Phe Gln Arg Pro Leu Arg Met Cys Leu Pro Ser Gln Ile  
 1 5 10 15

Trp Ala Phe Pro Val Pro Lys His His Leu Gly Gly Ser Leu Trp Val  
 20 25 30

Leu Ile Ser Ser His Met Phe Thr Pro His Val Gly Leu Pro Asn Cys  
 35 40 45

## 5564

Pro Pro Gln Gly Lys Pro Phe Leu Pro Thr Ser Arg Lys Leu Leu Val  
 50 55 60  
 Pro Trp Pro Ser His Thr Ser Asp Leu Val Pro Leu Pro Gly Pro Val  
 65 70 75 80  
 Gly Phe Asn Asn Leu Val Ser Ser Leu Pro Arg Asn Pro Leu Cys Leu  
 85 90 95  
 Glu Cys Ser Pro Pro Ser Gln Pro Leu Ser His Thr Ile Phe Ser Phe  
 100 105 110  
 Leu Ser Ser Thr Lys Arg Trp Asp Lys Pro Val Cys Thr Gln Cys Leu  
 115 120 125  
 Trp Asp Asn Arg Arg Arg Asn Leu Glu Phe Gly Trp Val Ile Lys Leu  
 130 135 140  
 Trp Asn  
 145

&lt;210&gt; 6339

&lt;211&gt; 72

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6339

Ser Ile Ile Pro Phe Lys Cys Tyr Phe Gln Phe Trp Gly Ile Phe Phe  
 1 5 10 15

Phe Trp Ser Phe Cys Cys Xaa Cys Ser Phe Phe Thr Ile Pro Lys Met  
 20 25 30



## 5565

Leu Gln Gln Ile Phe Phe Tyr Arg Leu Asn Val Ala Tyr Pro Lys Tyr  
                   35                  40                  45

Leu Gly Pro Glu Val Leu Gly Ile Ser Asp Phe Gln Ile Arg Asp Xaa  
           50                  55                  60

Xaa Pro Val Tyr Thr Ser Leu His  
       65                  70

<210> 6340

<211> 385

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (296)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6340

His Leu Asn Val Asp Arg Lys Arg Pro Cys Ser Ile Glu Asp Arg Arg  
       1                  5                  10                  15

Asn Trp Ser Leu Ile Gly Arg Pro Gly Ala Pro Ala Ser Gly Leu Asn  
                   20                  25                  30

Arg Ser Ser Gly Leu Trp Leu Gly Pro Asp Arg Cys Arg Pro Arg Ser  
           35                  40                  45

Arg Cys Ser Cys Arg Val Met Glu Asn Pro Ser Pro Ala Ala Ala Leu  
       50                  55                  60

Gly Lys Ala Leu Cys Ala Leu Leu Leu Ala Thr Leu Gly Ala Ala Gly  
       65                  70                  75                  80

Gln Pro Leu Gly Gly Glu Ser Ile Cys Ser Ala Arg Ala Pro Ala Lys  
                   85                  90                  95

Tyr Ser Ile Thr Phe Thr Gly Lys Trp Ser Gln Thr Ala Phe Pro Lys  
           100                  105                  110

Gln Tyr Pro Leu Phe Arg Pro Pro Ala Gln Trp Ser Ser Leu Leu Gly  
       115                  120                  125

## 5566

Ala Ala His Ser Ser Asp Tyr Ser Met Trp Arg Lys Asn Gln Tyr Val  
 130 135 140  
 Ser Asn Gly Leu Arg Asp Phe Ala Glu Arg Gly Glu Ala Trp Ala Leu  
 145 150 155 160  
 Met Lys Glu Ile Glu Ala Ala Gly Glu Ala Leu Gln Ser Val His Xaa  
 165 170 175  
 Val Phe Ser Ala Pro Ala Val Pro Ser Gly Thr Gly Gln Thr Ser Ala  
 180 185 190  
 Glu Leu Glu Val Gln Arg Arg His Ser Leu Val Ser Phe Val Val Arg  
 195 200 205  
 Ile Val Pro Ser Pro Asp Trp Phe Val Gly Val Asp Ser Leu Asp Leu  
 210 215 220  
 Cys Asp Gly Asp Arg Trp Arg Glu Gln Ala Ala Leu Asp Leu Tyr Pro  
 225 230 235 240  
 Tyr Asp Ala Gly Thr Asp Ser Gly Phe Thr Phe Ser Ser Pro Asn Phe  
 245 250 255  
 Ala Thr Ile Pro Gln Asp Thr Val Thr Glu Ile Thr Ser Ser Ser Pro  
 260 265 270  
 Ser His Pro Ala Asn Ser Phe Tyr Tyr Pro Arg Leu Lys Ala Leu Pro  
 275 280 285  
 Pro Ile Ala Arg Val Thr Leu Xaa Arg Leu Arg Gln Ser Pro Arg Ala  
 290 295 300  
 Phe Ile Pro Pro Ala Pro Val Leu Pro Ser Arg Asp Asn Glu Ile Val  
 305 310 315 320  
 Asp Ser Ala Ser Val Pro Glu Thr Pro Leu Asp Cys Glu Val Ser Leu  
 325 330 335  
 Trp Ser Ser Trp Gly Leu Cys Gly Gly His Cys Gly Arg Leu Gly Thr  
 340 345 350  
 Lys Ser Arg Thr Arg Tyr Val Arg Val Gln Pro Ala Asn Asn Gly Ser  
 355 360 365  
 Pro Cys Pro Glu Leu Glu Glu Glu Ala Glu Cys Val Pro Asp Asn Cys  
 370 375 380  
 Val  
 385

## 5567

&lt;210&gt; 6341

&lt;211&gt; 124

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6341

Arg Pro Ala Cys Pro Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr  
 1 5 10 15

Arg Pro Pro Thr Arg Pro Pro Thr Arg Pro Pro Thr Arg Pro Leu Cys  
 20 25 30

Arg Lys Met Gly Val Pro Tyr Cys Ile Ile Lys Gly Lys Ala Arg Leu  
 35 40 45

Gly Arg Leu Val His Arg Lys Thr Cys Thr Thr Val Ala Phe Thr Gln  
 50 55 60

Val Asn Ser Glu Asp Lys Gly Ala Leu Ala Lys Leu Val Glu Ala Ile  
 65 70 75 80

Arg Thr Asn Tyr Asn Asp Arg Tyr Asp Glu Ile Arg Arg His Trp Gly  
 85 90 95

Gly Asn Val Leu Gly Pro Lys Ser Val Ala Arg Ile Ala Lys Leu Glu  
 100 105 110

Lys Ala Lys Ala Lys Glu Leu Ala Thr Lys Leu Gly  
 115 120

&lt;210&gt; 6342

&lt;211&gt; 110

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (58)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6342

Ala Trp Lys Arg Arg Arg Glu Val Lys Asp Gln Ser Leu Ile Gly Thr  
 1 5 10 15

Gly Ser His Ser Gly Ser Ser Leu Gln Ser Asp Pro His Phe Gly Cys  
 20 25 30

## 5568

Ser Leu Gly Pro Ser Ser Gly Pro Arg Ser Ile Arg Leu His Pro Pro  
 35 40 45

Ser Leu Phe Arg Ile Leu Ser Cys Ala Xaa Pro Thr Pro Gly Ser Arg  
 50 55 60

Ser Gln Thr Ser Ser His Gly Trp Ser Leu Leu Pro Ser Ala Val Arg  
 65 70 75 80

Pro Pro Gly Thr Gln Ala Pro Gly Phe Gly Arg Ser Gly Val Ser Ser  
 85 90 95

Arg Trp Val Ser Ala Pro Thr Gly Thr Cys Thr Ser Cys Gln  
 100 105 110

<210> 6343

<211> 226

<212> PRT

<213> Homo sapiens

<400> 6343

Thr Glu Gly Tyr Gly Cys Gln Lys Thr Thr Glu Gly Tyr Gly Cys Glu  
 1 5 10 15

Lys Thr Thr Glu Gly Tyr Gly Cys Glu Lys Thr Thr Glu Gly Gly Ser  
 20 25 30

Ser Ser Phe Ala Pro Arg Val His Gly Ser Ser Phe Ser Phe Pro Leu  
 35 40 45

Gly Arg Glu Glu Ala Met Ala Ala Met Ala Ser Leu Gly Ala Leu Ala  
 50 55 60

Leu Leu Leu Leu Ser Ser Leu Ser Arg Cys Ser Ala Glu Ala Cys Leu  
 65 70 75 80

Glu Pro Gln Ile Thr Pro Ser Tyr Tyr Thr Thr Ser Asp Ala Val Ile  
 85 90 95

Ser Thr Glu Thr Val Phe Ile Val Glu Ile Ser Leu Thr Cys Lys Asn  
 100 105 110

Arg Val Gln Asn Met Ala Leu Tyr Ala Asp Val Gly Gly Lys Gln Phe  
 115 120 125

Pro Val Thr Arg Gly Gln Asp Val Gly Arg Tyr Gln Val Ser Trp Ser  
 130 135 140

Leu Asp His Lys Ser Ala His Ala Gly Thr Tyr Glu Val Arg Phe Phe

## 5569

145                      150                      155                      160  
 Asp Glu Glu Ser Tyr Ser Leu Leu Arg Lys Ala Gln Arg Asn Asn Glu  
                                  165                      170                      175  
 Asp Ile Ser Ile Ile Pro Pro Leu Phe Thr Val Ser Val Asp His Arg  
                                  180                      185                      190  
 Gly Thr Trp Asn Gly Pro Trp Val Ser Thr Glu Val Leu Ala Ala Ala  
                                  195                      200                      205  
 Ile Gly Leu Val Ile Tyr Tyr Leu Ala Phe Ser Ala Lys Ser His Ile  
                                  210                      215                      220  
 Gln Ala  
 225  
  
 <210> 6344  
 <211> 235  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (185)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 6344  
 Ser Pro Arg Pro Leu Arg Phe Cys Gly Gly Ala Arg Ala Arg Arg Pro  
   1                                  5                                  10                                  15  
 Leu Ser Ala Val Ala Arg Pro Ala Arg Ser Ser Asp Pro Leu Arg Ser  
                                   20                                  25                                  30  
 Ala Pro Leu Gly Pro Ala Pro Pro Val Asn Met Ile Arg Cys Gly Leu  
                                   35                                  40                                  45  
 Ala Cys Glu Arg Cys Arg Trp Ile Leu Pro Leu Leu Leu Leu Ser Ala  
                                   50                                  55                                  60  
 Ile Ala Phe Asp Ile Ile Ala Leu Ala Gly Arg Gly Trp Leu Gln Ser  
   65                                  70                                  75                                  80  
 Ser Asp His Gly Gln Thr Ser Ser Leu Trp Trp Lys Cys Ser Gln Glu  
                                   85                                  90                                  95  
 Gly Gly Gly Ser Gly Ser Tyr Glu Glu Gly Cys Gln Ser Leu Met Glu  
                                  100                                 105                                 110

## 5570

Tyr Ala Trp Gly Arg Ala Ala Ala Met Leu Phe Cys Gly Phe Ile  
 115 120 125  
 Ile Leu Val Ile Cys Phe Ile Leu Ser Phe Phe Ala Leu Cys Gly Pro  
 130 135 140  
 Gln Met Leu Val Phe Leu Arg Val Ile Gly Gly Leu Leu Ala Leu Ala  
 145 150 155 160  
 Ala Val Phe Gln Ile Ile Ser Leu Val Ile Tyr Pro Val Lys Tyr Thr  
 165 170 175  
 Gln Thr Phe Thr Leu His Ala Asn Xaa Ala Val Thr Tyr Ile Tyr Asn  
 180 185 190  
 Trp Ala Tyr Gly Phe Gly Trp Ala Ala Thr Ile Ile Leu Ile Gly Cys  
 195 200 205  
 Ala Phe Phe Phe Cys Cys Leu Pro Asn Tyr Glu Asp Asp Leu Leu Gly  
 210 215 220  
 Asn Ala Lys Pro Arg Tyr Phe Tyr Thr Ser Ala  
 225 230 235

&lt;210&gt; 6345

&lt;211&gt; 88

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (88)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6345

Gly Asn Leu His Gly Ile Leu Arg Asp Phe Tyr Ser Pro Leu Val Pro  
 1 5 10 15  
 Asp Ser Met Lys Phe Glu Ile Gly Glu Ala Leu Tyr Leu Gly Ile Ile  
 20 25 30  
 Ser Ser Leu Phe Ser Leu Ile Ala Gly Ile Ile Leu Cys Phe Ser Cys  
 35 40 45  
 Ser Ser Gln Arg Asn Arg Ser Asn Tyr Tyr Asp Ala Tyr Gln Ala Gln  
 50 55 60  
 Pro Leu Ala Thr Arg Ser Ser Pro Arg Pro Gly Gln Pro Pro Lys Val  
 65 70 75 80

## 5571

Lys Ser Glu Phe Asn Ser Tyr Xaa  
85

<210> 6346  
<211> 105  
<212> PRT  
<213> Homo sapiens

<400> 6346  
Gly Ser Val Ala Gln Ser Arg Pro Ala Tyr Leu Ser Lys Asn Ser Lys  
1 5 10 15  
Ser Leu Ser Gln Pro Thr Gly Leu Asn Leu His Trp Lys Pro Thr Cys  
20 25 30  
Trp His Pro Arg Ser Pro Thr Leu Leu Ala Trp Val Gly Glu Ala Lys  
35 40 45  
Asp His Pro Lys Phe Thr His Leu Ser Ser Ala Ala Ser His Trp Ala  
50 55 60  
Ser Ala Ala Pro Gln His Gln Phe Thr Gly His Pro Ser Leu Leu Ala  
65 70 75 80  
Leu Ser Pro Asn Leu Leu Ser Ile Pro Arg Ser Asn Leu Pro Leu Arg  
85 90 95  
Ser Ala Arg Asn Ser Phe Arg Pro His  
100 105

<210> 6347  
<211> 105  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5572

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6347

Arg	Cys	Cys	Leu	Pro	Glu	Asp	Gly	Lys	Ala	Asp	Ile	Val	Arg	Ala	Ala
1				5					10					15	

Gln	Asp	Phe	Cys	Gln	Xaa	Val	Ala	Gln	Lys	Gln	Xaa	Arg	Pro	Thr	Asp
			20					25					30		

Leu	Asp	Val	Asp	Thr	Leu	Ala	Ser	Leu	Leu	Ser	Ser	Asn	Gly	Cys	Pro
		35					40					45			

Asp	Pro	Asp	Leu	Val	Leu	Lys	Phe	Gly	Pro	Val	Asp	Ser	Thr	Xaa	Gly
	50					55					60				

Phe	Leu	Pro	Trp	His	Ile	Arg	Leu	Thr	Glu	Ile	Val	Ser	Leu	Pro	Ser
65					70					75					80

His	Leu	Asn	Ile	Ser	Tyr	Glu	Asp	Phe	Phe	Ser	Ala	Leu	Arg	Gln	Tyr
				85					90					95	

Ala	Ala	Cys	Glu	Gln	Arg	Leu	Gly	Lys
		100					105	

&lt;210&gt; 6348

&lt;211&gt; 81

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6348

Tyr	Phe	Asp	Ile	Ser	Lys	His	Leu	His	Gly	Asn	His	Tyr	Ile	Asp	Pro
1				5					10					15	

Thr	Cys	Gly	Phe	Ser	Ser	Tyr	Val	His	Leu	Thr	Arg	Ile	Tyr	Tyr	Phe
			20					25					30		

Arg	Tyr	Asn	Leu	Gln	Met	Ser	His	Leu	Ile	Ile	Phe	Tyr	Asn	Ile	Pro
		35					40					45			

Tyr	Phe	Ile	Lys	Val	Leu	Leu	Glu	Lys	Tyr	Leu	Pro	Gln	Arg	Ser	Phe
	50					55					60				

Cys	His	Cys	Val	Arg	Cys	Val	Phe	Glu	Pro	Thr	Met	Thr	Glu	Ser	Lys
65					70					75					80

Phe



## 5573

&lt;210&gt; 6349

&lt;211&gt; 100

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6349

Leu Lys Ile Asn Pro Ser Gly Lys Lys Lys Lys Lys Lys Asn Ser Arg  
1 5 10 15

Gly Gly Pro Val Pro Asn Ser Pro Tyr Ser Glu Ser Tyr Tyr Asn Ser  
20 25 30

Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr  
35 40 45

Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Trp Arg Asn  
50 55 60

Ser Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Ser Leu  
65 70 75 80

Asn Gly Glu Trp Gln Ile Val Ser Val Asn Ile Leu Leu Lys Phe Ala  
85 90 95

Leu Asn Phe Cys  
100

&lt;210&gt; 6350

&lt;211&gt; 231

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5574

<220>  
 <221> SITE  
 <222> (17)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (102)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (202)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (203)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (230)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6350  
 Arg Asp Xaa Trp Xaa Ala Ile Pro Asp Thr Ile Asp Xaa Thr Pro Ala  
           1                  5                  10                  15  
 Xaa Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Pro Ala Pro  
                   20                  25                  30  
 Pro Ala Met Val Val Ser Gly Ala Pro Pro Ala Leu Gly Gly Gly Cys  
           35                  40                  45  
 Leu Gly Thr Phe Thr Ser Leu Leu Leu Leu Ala Ser Thr Ala Ile Leu  
           50                  55                  60  
 Asn Ala Ala Arg Ile Pro Val Pro Pro Ala Cys Gly Lys Pro Gln Gln  
           65                  70                  75                  80  
 Leu Asn Arg Val Val Gly Gly Glu Asp Ser Thr Asp Ser Glu Trp Pro  
                   85                  90                  95  
 Trp Ile Val Ser Ile Xaa Lys Asn Gly Thr His His Cys Ala Gly Ser  
           100                  105                  110  
 Leu Leu Thr Ser Arg Trp Val Ile Thr Ala Ala His Cys Phe Lys Asp  
           115                  120                  125

## 5575

Asn Leu Asn Lys Pro Tyr Leu Phe Ser Val Leu Leu Gly Ala Trp Gln  
 130 135 140

Leu Gly Asn Pro Gly Ser Arg Ser Gln Lys Val Gly Val Ala Trp Val  
 145 150 155 160

Glu Pro His Pro Val Tyr Ser Trp Lys Glu Gly Ala Cys Ala Asp Ile  
 165 170 175

Ala Leu Val Arg Leu Glu Arg Ser Ile Gln Phe Ser Glu Arg Val Leu  
 180 185 190

Pro Ile Cys Leu Pro Asp Ala Ser Ile Xaa Xaa Pro Pro Asn Thr His  
 195 200 205

Cys Trp Ile Ser Gly Trp Gly Ser Ile Gln Asp Gly Val Pro Leu Pro  
 210 215 220

Thr Leu Arg Pro Cys Xaa Ser  
 225 230

<210> 6351

<211> 240

<212> PRT

<213> Homo sapiens

<400> 6351

Gly Phe Pro Gly Thr Gly Ser Gly Gln Gly Ile Arg Pro Thr His Pro  
 1 5 10 15

Arg Gly Lys Pro Gly Pro Ser Gly Ala Asp Arg Gly Pro His Gly Pro  
 20 25 30

Arg Gly Gly Arg Arg Arg Leu Gly Val Ala Gly Arg Ala Ser Arg Val  
 35 40 45

Asp Arg Ala His Ala Ala Ala His Thr Gly Leu Gly Glu Glu Phe  
 50 55 60

His Asp Val Glu Asp Ala Glu Thr Tyr Lys Lys Met Leu Ala Arg Asp  
 65 70 75 80

Glu Arg Arg Phe Arg Val Ala Asp Gln Asp Gly Asp Ser Met Ala Thr  
 85 90 95

Arg Glu Glu Leu Thr Ala Phe Leu His Pro Glu Glu Phe Pro His Met  
 100 105 110

Arg Asp Ile Val Ile Ala Glu Thr Leu Glu Asp Leu Asp Arg Asn Lys

## 5576

115	120	125
Asp Gly Tyr Val Gln Val Glu Glu Tyr Ile Ala Asp Leu Tyr Ser Ala		
130	135	140
Glu Pro Gly Glu Glu Glu Pro Ala Trp Val Gln Thr Glu Arg Gln Gln		
145	150	155
Phe Arg Asp Phe Arg Asp Leu Asn Lys Asp Gly His Leu Asp Gly Ser		
	165	170
Glu Val Gly His Trp Val Leu Pro Pro Ala Gln Asp Gln Pro Leu Val		
	180	185
Glu Ala Asn His Leu Leu His Glu Ser Asp Thr Asp Lys Asp Gly Arg		
	195	200
Leu Ser Lys Ala Glu Ile Leu Gly Asn Trp Asn Met Phe Val Gly Ser		
	210	215
Gln Ala Thr Asn Tyr Gly Glu Asp Leu Thr Arg His His Asp Glu Leu		
225	230	235
		240

&lt;210&gt; 6352

&lt;211&gt; 505

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6352

His Arg Arg Gly Ser Ile Pro Arg Gln Gln Leu Ser Pro Thr Ala Phe
1 5 10 15
Pro Ala Arg Asn His Leu Ser Thr Ile Pro Trp Gly Leu Pro Arg Thr
20 25 30
Ile Glu Glu Leu Arg Leu Asp Asp Asn Arg Ile Ser Thr Ile Ser Ser
35 40 45
Pro Ser Leu Gln Gly Leu Thr Ser Leu Lys Arg Leu Val Leu Asp Gly
50 55 60
Asn Leu Leu Asn Asn His Gly Leu Gly Asp Lys Val Phe Phe Asn Leu
65 70 75 80
Val Asn Leu Thr Glu Leu Ser Leu Val Arg Asn Ser Leu Thr Ala Ala
85 90 95

## 5577

Pro Val Asn Leu Pro Gly Thr Asn Leu Arg Lys Leu Tyr Leu Gln Asp  
 100 105 110  
 Asn His Ile Asn Arg Val Pro Pro Asn Ala Phe Ser Tyr Leu Arg Gln  
 115 120 125  
 Leu Tyr Arg Leu Asp Met Ser Asn Asn Asn Leu Ser Asn Leu Pro Gln  
 130 135 140  
 Gly Ile Phe Asp Asp Leu Asp Asn Ile Thr Gln Leu Ile Leu Arg Asn  
 145 150 155 160  
 Asn Pro Trp Tyr Cys Gly Cys Lys Met Lys Trp Val Arg Asp Trp Leu  
 165 170 175  
 Gln Ser Leu Pro Val Lys Val Asn Val Arg Gly Leu Met Cys Gln Ala  
 180 185 190  
 Pro Glu Lys Val Arg Gly Met Ala Ile Lys Asp Leu Asn Ala Glu Leu  
 195 200 205  
 Phe Asp Cys Lys Asp Ser Gly Ile Val Ser Thr Ile Gln Ile Thr Thr  
 210 215 220  
 Ala Ile Pro Asn Thr Val Tyr Pro Ala Gln Gly Gln Trp Pro Ala Pro  
 225 230 235 240  
 Val Thr Lys Gln Pro Asp Ile Lys Asn Pro Lys Leu Thr Lys Asp Gln  
 245 250 255  
 Gln Thr Thr Gly Ser Pro Ser Arg Lys Thr Ile Thr Ile Thr Val Lys  
 260 265 270  
 Ser Val Thr Ser Asp Thr Ile His Ile Ser Trp Lys Leu Ala Leu Pro  
 275 280 285  
 Met Thr Ala Leu Arg Leu Ser Trp Leu Lys Leu Gly His Ser Pro Ala  
 290 295 300  
 Phe Gly Ser Ile Thr Glu Thr Ile Val Thr Gly Glu Arg Ser Glu Tyr  
 305 310 315 320  
 Leu Val Thr Ala Leu Glu Pro Asp Ser Pro Tyr Lys Val Cys Met Val  
 325 330 335  
 Pro Met Glu Thr Ser Asn Leu Tyr Leu Phe Asp Glu Thr Pro Val Cys  
 340 345 350  
 Ile Glu Thr Glu Thr Ala Pro Leu Arg Met Tyr Asn Pro Thr Thr Thr  
 355 360 365

## 5578

Leu Asn Arg Glu Gln Glu Lys Glu Pro Tyr Lys Asn Pro Asn Leu Pro  
 370 375 380  
 Leu Ala Ala Ile Ile Gly Gly Ala Val Ala Leu Val Thr Ile Ala Leu  
 385 390 395 400  
 Leu Ala Leu Val Cys Trp Tyr Val His Arg Asn Gly Ser Leu Phe Ser  
 405 410 415  
 Arg Asn Cys Ala Tyr Ser Lys Gly Arg Arg Arg Lys Asp Asp Tyr Ala  
 420 425 430  
 Glu Ala Gly Thr Lys Lys Asp Asn Ser Ile Leu Glu Ile Arg Glu Thr  
 435 440 445  
 Ser Phe Gln Met Leu Pro Ile Ser Asn Glu Pro Ile Ser Lys Glu Glu  
 450 455 460  
 Phe Val Ile His Thr Ile Phe Pro Pro Asn Gly Met Asn Leu Tyr Lys  
 465 470 475 480  
 Asn Asn His Ser Glu Ser Ser Ser Asn Arg Ser Tyr Arg Asp Ser Gly  
 485 490 495  
 Ile Pro Asp Ser Asp His Ser His Ser  
 500 505

&lt;210&gt; 6353

&lt;211&gt; 719

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (250)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (278)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (647)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 5579

&lt;221&gt; SITE

&lt;222&gt; (650)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6353

Thr	Ala	Trp	Pro	Ala	Ser	Trp	Thr	Thr	Pro	Pro	Ala	Ser	Ser	Met	Ser
1				5					10					15	

Arg	Asp	Leu	Leu	Phe	Lys	His	Tyr	Cys	Tyr	Pro	Glu	Arg	Asp	Pro	Glu
		20						25					30		

Glu	Val	Phe	Ala	Phe	Leu	Leu	Arg	Phe	Pro	His	Val	Ala	Leu	Phe	Thr
		35					40					45			

Phe	Asp	Gly	Leu	Asp	Glu	Leu	His	Ser	Asp	Leu	Asp	Leu	Ser	Arg	Val
	50					55					60				

Pro	Asp	Ser	Ser	Cys	Pro	Trp	Glu	Pro	Ala	His	Pro	Leu	Val	Leu	Leu
65					70					75					80

Ala	Asn	Leu	Leu	Ser	Gly	Lys	Leu	Leu	Lys	Gly	Ala	Ser	Lys	Leu	Leu
				85					90					95	

Thr	Ala	Arg	Thr	Gly	Ile	Glu	Val	Pro	Arg	Gln	Phe	Leu	Arg	Lys	Lys
			100						105					110	

Val	Leu	Leu	Arg	Gly	Phe	Ser	Pro	Ser	His	Leu	Arg	Ala	Tyr	Ala	Arg
		115					120					125			

Arg	Met	Phe	Pro	Glu	Arg	Ala	Leu	Gln	Asp	Arg	Leu	Leu	Ser	Gln	Leu
	130					135					140				

Glu	Ala	Asn	Pro	Asn	Leu	Cys	Ser	Leu	Cys	Ser	Val	Pro	Leu	Phe	Cys
145					150					155					160

Trp	Ile	Ile	Phe	Arg	Cys	Phe	Gln	His	Phe	Arg	Ala	Ala	Phe	Glu	Gly
				165					170					175	

Ser	Pro	Gln	Leu	Pro	Asp	Cys	Thr	Met	Thr	Leu	Thr	Asp	Val	Phe	Leu
			180					185					190		

Leu	Val	Thr	Glu	Val	His	Leu	Asn	Arg	Met	Gln	Pro	Ser	Ser	Leu	Val
		195					200					205			

Gln	Arg	Asn	Thr	Arg	Ser	Pro	Val	Glu	Thr	Leu	His	Ala	Gly	Arg	Asp
	210					215					220				

Thr	Leu	Cys	Ser	Leu	Gly	Gln	Val	Ala	His	Arg	Gly	Met	Glu	Lys	Ser
225					230					235					240

Leu	Phe	Val	Phe	Thr	Gln	Glu	Glu	Val	Xaa	Ala	Ser	Gly	Leu	Gln	Glu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 5580

	245		250		255
Arg Asp Met Gln Leu Gly Phe Leu Arg Ala Leu Pro Glu Leu Gly Pro	260	265	270		
Gly Gly Asp Gln Gln Xaa Tyr Glu Phe Phe His Leu Thr Leu Gln Ala	275	280	285		
Phe Phe Thr Ala Phe Phe Leu Val Leu Asp Asp Arg Val Gly Thr Gln	290	295	300		
Glu Leu Leu Arg Phe Phe Gln Glu Trp Met Pro Pro Ala Gly Ala Ala	305	310	315	320	
Thr Thr Ser Cys Tyr Pro Pro Phe Leu Pro Phe Gln Cys Leu Gln Gly	325	330	335		
Ser Gly Pro Ala Arg Glu Asp Leu Phe Lys Asn Lys Asp His Phe Gln	340	345	350		
Phe Thr Asn Leu Phe Leu Cys Gly Leu Leu Ser Lys Ala Lys Gln Lys	355	360	365		
Leu Leu Arg His Leu Val Pro Ala Ala Ala Leu Arg Arg Lys Arg Lys	370	375	380		
Ala Leu Trp Ala His Leu Phe Ser Ser Leu Arg Gly Tyr Leu Lys Ser	385	390	395	400	
Leu Pro Arg Val Gln Val Glu Ser Phe Asn Gln Val Gln Ala Met Pro	405	410	415		
Thr Phe Ile Trp Met Leu Arg Cys Ile Tyr Glu Thr Gln Ser Gln Lys	420	425	430		
Val Gly Gln Leu Ala Ala Arg Gly Ile Cys Ala Asn Tyr Leu Lys Leu	435	440	445		
Thr Tyr Cys Asn Ala Cys Ser Ala Asp Cys Ser Ala Leu Ser Phe Val	450	455	460		
Leu His His Phe Pro Lys Arg Leu Ala Leu Asp Leu Asp Asn Asn Asn	465	470	475	480	
Leu Asn Asp Tyr Gly Val Arg Glu Leu Gln Pro Cys Phe Ser Arg Leu	485	490	495		
Thr Val Leu Arg Leu Ser Val Asn Gln Ile Thr Asp Gly Gly Val Lys	500	505	510		
Val Leu Ser Glu Glu Leu Thr Lys Tyr Lys Ile Val Thr Tyr Leu Gly					



## 5581

515		520		525
Leu Tyr Asn Asn Gln Ile Thr Asp Val Gly Ala Arg Tyr Val Thr Lys				
530		535		540
Ile Leu Asp Glu Cys Lys Gly Leu Thr His Leu Lys Leu Gly Lys Asn				
545		550		555
				560
Lys Ile Thr Ser Glu Gly Gly Lys Tyr Leu Ala Leu Ala Val Lys Asn				
	565		570	575
Ser Lys Ser Ile Ser Glu Val Gly Met Trp Gly Asn Gln Val Gly Asp				
	580		585	590
Glu Gly Ala Lys Ala Phe Ala Glu Ala Leu Arg Asn His Pro Ser Leu				
	595		600	605
Thr Thr Leu Ser Leu Ala Ser Asn Gly Ile Ser Thr Glu Gly Gly Lys				
	610		615	620
Ser Leu Ala Arg Ala Leu Gln Gln Asn Thr Ser Leu Glu Ile Leu Trp				
	625		630	635
				640
Leu Thr Gln Asn Glu Leu Xaa Asp Glu Xaa Ala Glu Ser Leu Ala Glu				
	645		650	655
Met Leu Lys Val Asn Gln Thr Leu Lys His Leu Trp Leu Ile Gln Asn				
	660		665	670
Gln Ile Thr Ala Lys Gly Thr Ala Gln Leu Ala Asp Ala Leu Gln Ser				
	675		680	685
Asn Thr Gly Ile Thr Glu Ile Cys Leu Asn Gly Asn Leu Ile Lys Pro				
	690		695	700
Glu Glu Ala Lys Val Tyr Glu Asp Glu Lys Arg Ile Ile Cys Phe				
	705		710	715

&lt;210&gt; 6354

&lt;211&gt; 729

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 5582

&lt;221&gt; SITE

&lt;222&gt; (196)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6354

```

Leu Ser Pro Leu Lys Leu Tyr Ala Gln Val Cys Arg Tyr Asp Leu Gly
 1             5             10             15

Pro Tyr Leu Ala Ser Leu Pro Leu Asp Ser Ser Leu Leu Xaa Gln Pro
          20             25             30

Asn Leu Val Ala Pro Thr Ser Gln Ser Leu Ile Thr Pro Pro Gln Met
          35             40             45

Thr Asn Thr Gly Asn Ala Asn Thr Pro Ser Ala Thr Leu Ala Ser Ala
 50             55             60

Ala Ser Ser Thr Met Thr Val Thr Ser Gly Val Ala Ile Ser Thr Ser
 65             70             75             80

Val Ala Thr Ala Asn Ser Thr Leu Thr Thr Ala Ser Thr Ser Ser Ser
          85             90             95

Ser Ser Ser Asn Leu Asn Ser Gly Val Ser Ser Asn Lys Leu Pro Ser
          100            105            110

Phe Pro Pro Phe Gly Ser Met Asn Ser Asn Ala Ala Gly Ser Met Ser
          115            120            125

Thr Gln Ala Asn Thr Val Gln Ser Gly Gln Leu Gly Gly Gln Gln Thr
          130            135            140

Ser Ala Leu Gln Thr Ala Gly Ile Ser Gly Glu Ser Ser Ser Leu Pro
          145            150            155            160

Thr Gln Pro His Pro Asp Val Ser Glu Ser Thr Met Asp Arg Asp Lys
          165            170            175

Val Gly Ile Pro Thr Asp Gly Asp Ser His Ala Val Thr Tyr Pro Pro
          180            185            190

Ala Ile Val Xaa Tyr Ile Ile Asp Pro Phe Thr Tyr Glu Asn Thr Asp
          195            200            205

Glu Ser Thr Asn Ser Ser Ser Val Trp Thr Leu Gly Leu Leu Arg Cys
          210            215            220

Phe Leu Glu Met Val Gln Thr Leu Pro Pro His Ile Lys Ser Thr Val
          225            230            235            240

Ser Val Gln Ile Ile Pro Cys Gln Tyr Leu Leu Gln Pro Val Lys His

```

## 245

250

255

Thr His Ile Leu Val Phe Pro Thr Ser Ala Ser Val Gln Val Ala Ser

## 5584

515					520					525					
Ala	Thr	Tyr	Thr	Thr	Glu	Asn	Leu	Asp	Leu	Ala	Phe	Asn	Pro	Asn	Asn
530						535					540				
Asp	Gly	Ala	Asp	Gly	Met	Gly	Ile	Phe	Asp	Leu	Leu	Asp	Thr	Gly	Asp
545					550					555					560
Asp	Leu	Asp	Pro	Asp	Ile	Ile	Asn	Ile	Leu	Pro	Ala	Ser	Pro	Thr	Gly
				565					570					575	
Ser	Pro	Val	His	Ser	Pro	Gly	Ser	His	Tyr	Pro	His	Gly	Gly	Asp	Ala
			580					585					590		
Gly	Lys	Gly	Gln	Ser	Thr	Asp	Arg	Leu	Leu	Ser	Thr	Glu	Pro	His	Glu
			595				600					605			
Glu	Val	Pro	Asn	Ile	Leu	Gln	Gln	Pro	Leu	Ala	Leu	Gly	Tyr	Phe	Val
	610					615					620				
Ser	Thr	Ala	Lys	Ala	Gly	Pro	Leu	Pro	Asp	Trp	Phe	Trp	Ser	Ala	Cys
625					630					635					640
Pro	Gln	Ala	Gln	Tyr	Gln	Cys	Pro	Leu	Phe	Leu	Lys	Ala	Ser	Leu	His
				645					650					655	
Leu	His	Val	Pro	Ser	Val	Gln	Ser	Asp	Glu	Leu	Leu	His	Ser	Lys	His
			660					665					670		
Ser	His	Pro	Leu	Asp	Ser	Asn	Gln	Thr	Ser	Asp	Val	Leu	Arg	Phe	Val
		675					680					685			
Leu	Glu	Gln	Tyr	Asn	Ala	Leu	Ser	Trp	Leu	Thr	Cys	Asp	Pro	Ala	Thr
	690						695				700				
Gln	Asp	Arg	Arg	Ser	Cys	Leu	Pro	Ile	His	Phe	Val	Val	Leu	Asn	Gln
705					710					715					720
Leu	Tyr	Asn	Phe	Ile	Met	Asn	Met	Leu							
				725											

&lt;210&gt; 6355

&lt;211&gt; 552

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)

## 5585

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6355

Val	Ser	Leu	Thr	Arg	Arg	Glu	Gly	Thr	Gly	Pro	Arg	Pro	Arg	Ala	Ala	1	5	10	15
Gly	Ala	Gly	Ala	Arg	His	Val	His	Arg	Leu	Gly	Arg	Glu	Val	Ala	Ile	20	25	30	
Ala	Glu	Arg	Gln	Glu	Gly	Arg	Gly	Gly	Pro	Gly	Arg	Arg	Pro	Xaa	Val	35	40	45	
Gly	Arg	Arg	Trp	Gly	Arg	Pro	Ala	Arg	Leu	His	Leu	Arg	Ala	His	Gly	50	55	60	
Pro	Arg	Pro	Ser	Val	Arg	Thr	Gly	Leu	Pro	Ser	Val	Gly	Arg	Gln	Ala	65	70	75	80
Ala	Gly	Ala	Ala	Met	Gly	Arg	Gly	Trp	Gly	Phe	Leu	Phe	Gly	Leu	Leu	85	90	95	
Gly	Ala	Val	Trp	Leu	Leu	Ser	Ser	Gly	His	Gly	Glu	Glu	Gln	Pro	Pro	100	105	110	
Glu	Thr	Ala	Ala	Gln	Arg	Cys	Phe	Cys	Gln	Val	Ser	Gly	Tyr	Leu	Asp	115	120	125	
Asp	Cys	Thr	Cys	Asp	Val	Glu	Thr	Ile	Asp	Arg	Phe	Asn	Asn	Tyr	Arg	130	135	140	
Leu	Phe	Pro	Arg	Leu	Gln	Lys	Leu	Leu	Glu	Ser	Asp	Tyr	Phe	Arg	Tyr	145	150	155	160
Tyr	Lys	Val	Asn	Leu	Lys	Arg	Pro	Cys	Pro	Phe	Trp	Asn	Asp	Ile	Ser	165	170	175	
Gln	Cys	Gly	Arg	Arg	Asp	Cys	Ala	Val	Lys	Pro	Cys	Gln	Ser	Asp	Glu	180	185	190	
Val	Pro	Asp	Gly	Ile	Lys	Ser	Ala	Ser	Tyr	Lys	Tyr	Ser	Glu	Glu	Ala	195	200	205	
Asn	Asn	Leu	Ile	Glu	Glu	Cys	Glu	Gln	Ala	Glu	Arg	Leu	Gly	Ala	Val	210	215	220	
Asp	Glu	Ser	Leu	Ser	Glu	Glu	Thr	Gln	Lys	Ala	Val	Leu	Gln	Trp	Thr	225	230	235	240
Lys	His	Asp	Asp	Ser	Ser	Asp	Asn	Phe	Cys	Glu	Ala	Asp	Asp	Ile	Gln	245	250	255	

## 5586

Ser	Pro	Glu	Ala	Glu	Tyr	Val	Asp	Leu	Leu	Leu	Asn	Pro	Glu	Arg	Tyr	260	265	270	
Thr	Gly	Tyr	Lys	Gly	Pro	Asp	Ala	Trp	Lys	Ile	Trp	Asn	Val	Ile	Tyr	275	280	285	
Glu	Glu	Asn	Cys	Phe	Lys	Pro	Gln	Thr	Ile	Lys	Arg	Pro	Leu	Asn	Pro	290	295	300	
Leu	Ala	Ser	Gly	Gln	Gly	Thr	Ser	Glu	Glu	Asn	Thr	Phe	Tyr	Ser	Trp	305	310	315	320
Leu	Glu	Gly	Leu	Cys	Val	Glu	Lys	Arg	Ala	Phe	Tyr	Arg	Leu	Ile	Ser	325	330	335	
Gly	Leu	His	Ala	Ser	Ile	Asn	Val	His	Leu	Ser	Ala	Arg	Tyr	Leu	Leu	340	345	350	
Gln	Glu	Thr	Trp	Leu	Glu	Lys	Lys	Trp	Gly	His	Asn	Ile	Thr	Glu	Phe	355	360	365	
Gln	Gln	Arg	Phe	Asp	Gly	Ile	Leu	Thr	Glu	Gly	Glu	Gly	Pro	Arg	Arg	370	375	380	
Leu	Lys	Asn	Leu	Tyr	Phe	Leu	Tyr	Leu	Ile	Glu	Leu	Arg	Ala	Leu	Ser	385	390	395	400
Lys	Val	Leu	Pro	Phe	Phe	Glu	Arg	Pro	Asp	Phe	Gln	Leu	Phe	Thr	Gly	405	410	415	
Asn	Lys	Ile	Gln	Asp	Glu	Glu	Asn	Lys	Met	Leu	Leu	Leu	Glu	Ile	Leu	420	425	430	
His	Glu	Ile	Lys	Ser	Phe	Pro	Leu	His	Phe	Asp	Glu	Asn	Ser	Phe	Phe	435	440	445	
Ala	Gly	Asp	Lys	Lys	Glu	Ala	His	Lys	Leu	Lys	Glu	Asp	Phe	Arg	Leu	450	455	460	
His	Phe	Arg	Asn	Ile	Ser	Arg	Ile	Met	Asp	Cys	Val	Gly	Cys	Phe	Lys	465	470	475	480
Cys	Arg	Leu	Trp	Gly	Lys	Leu	Gln	Thr	Gln	Gly	Leu	Gly	Thr	Ala	Leu	485	490	495	
Lys	Ile	Leu	Phe	Ser	Glu	Lys	Leu	Ile	Ala	Asn	Met	Pro	Glu	Ser	Gly	500	505	510	
Pro	Ser	Tyr	Glu	Phe	His	Leu	Thr	Arg	Gln	Glu	Ile	Val	Ser	Leu	Phe	515	520	525	

## 5587

Asn Ala Phe Gly Arg Ile Ser Thr Ser Val Lys Glu Leu Glu Asn Phe  
 530 535 540

Arg Asn Leu Leu Gln Asn Ile His  
 545 550

<210> 6356  
 <211> 481  
 <212> PRT  
 <213> Homo sapiens

<400> 6356  
 Ala Thr Asn Arg Val Val Ala Pro Thr Pro Gly Pro Gly Thr Pro Ala  
 1 5 10 15  
 Glu Arg His Ala Asp Gly Leu Ala Leu Ala Leu Glu Pro Ala Leu Ala  
 20 25 30  
 Ser Pro Ala Gly Ala Ala Asn Phe Leu Ala Met Val Asp Asn Leu Gln  
 35 40 45  
 Gly Asp Ser Gly Arg Gly Tyr Tyr Leu Glu Met Leu Ile Gly Thr Pro  
 50 55 60  
 Pro Gln Lys Leu Gln Ile Leu Val Asp Thr Gly Ser Ser Asn Phe Ala  
 65 70 75 80  
 Val Ala Gly Thr Pro His Ser Tyr Ile Asp Thr Tyr Phe Asp Thr Glu  
 85 90 95  
 Arg Ser Ser Thr Tyr Arg Ser Lys Gly Phe Asp Val Thr Val Lys Tyr  
 100 105 110  
 Thr Gln Gly Ser Trp Thr Gly Phe Val Gly Glu Asp Leu Val Thr Ile  
 115 120 125  
 Pro Lys Gly Phe Asn Thr Ser Phe Leu Val Asn Ile Ala Thr Ile Phe  
 130 135 140  
 Glu Ser Glu Asn Phe Phe Leu Pro Gly Ile Lys Trp Asn Gly Ile Leu  
 145 150 155 160  
 Gly Leu Ala Tyr Ala Thr Leu Ala Lys Pro Ser Ser Ser Leu Glu Thr  
 165 170 175  
 Phe Phe Asp Ser Leu Val Thr Gln Ala Asn Ile Pro Asn Val Phe Ser  
 180 185 190  
 Met Gln Met Cys Gly Ala Gly Leu Pro Val Ala Gly Ser Gly Thr Asn

## 5588

195	200	205
Gly Gly Ser Leu Val Leu Gly Gly Ile Glu Pro Ser Leu Tyr Lys Gly		
210	215	220
Asp Ile Trp Tyr Thr Pro Ile Lys Glu Glu Trp Tyr Tyr Gln Ile Glu		
225	230	235
Ile Leu Lys Leu Glu Ile Gly Gly Gln Ser Leu Asn Leu Asp Cys Arg		
245	250	255
Glu Tyr Asn Ala Asp Lys Ala Ile Val Asp Ser Gly Thr Thr Leu Leu		
260	265	270
Arg Leu Pro Gln Lys Val Phe Asp Ala Val Val Glu Ala Val Ala Arg		
275	280	285
Ala Ser Leu Ile Pro Glu Phe Ser Asp Gly Phe Trp Thr Gly Ser Gln		
290	295	300
Leu Ala Cys Trp Thr Asn Ser Glu Thr Pro Trp Ser Tyr Phe Pro Lys		
305	310	315
Ile Ser Ile Tyr Leu Arg Asp Glu Asn Ser Ser Arg Ser Phe Arg Ile		
325	330	335
Thr Ile Leu Pro Gln Leu Tyr Ile Gln Pro Met Met Gly Ala Gly Leu		
340	345	350
Asn Tyr Glu Cys Tyr Arg Phe Gly Ile Ser Pro Ser Thr Asn Ala Leu		
355	360	365
Val Ile Gly Ala Thr Val Met Glu Gly Phe Tyr Val Ile Phe Asp Arg		
370	375	380
Ala Gln Lys Arg Val Gly Phe Ala Ala Ser Pro Cys Ala Glu Ile Ala		
385	390	395
Gly Ala Ala Val Ser Glu Ile Ser Gly Pro Phe Ser Thr Glu Asp Val		
405	410	415
Ala Ser Asn Cys Val Pro Ala Gln Ser Leu Ser Glu Pro Ile Leu Trp		
420	425	430
Ile Val Ser Tyr Ala Leu Met Ser Val Cys Gly Ala Ile Leu Leu Val		
435	440	445
Leu Ile Val Leu Leu Leu Leu Pro Phe Arg Cys Gln Arg Arg Pro Arg		
450	455	460
Asp Pro Glu Val Val Asn Asp Glu Ser Ser Leu Val Arg His Arg Trp		



## 5589

465

470

475

480

Lys

&lt;210&gt; 6357

&lt;211&gt; 441

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6357

Gly	Gly	Ser	Trp	Cys	Arg	Ser	Ser	Pro	Gly	Arg	Asp	Gly	Ser	Pro	Gly
1				5					10					15	

Ala	Lys	Gly	Asp	Arg	Gly	Glu	Thr	Gly	Pro	Ala	Gly	Pro	Pro	Gly	Ala
			20					25					30		

Pro	Gly	Ala	Pro	Gly	Ala	Pro	Gly	Pro	Val	Gly	Pro	Ala	Gly	Lys	Ser
		35					40					45			

Gly	Asp	Arg	Gly	Glu	Thr	Gly	Pro	Ala	Gly	Pro	Ala	Gly	Pro	Val	Gly
	50					55					60				

Pro	Val	Gly	Ala	Arg	Gly	Pro	Ala	Gly	Pro	Gln	Gly	Pro	Arg	Gly	Asp
65					70					75					80

Lys	Gly	Glu	Thr	Gly	Glu	Gln	Gly	Asp	Arg	Gly	Ile	Lys	Gly	His	Arg
				85					90					95	

Gly	Phe	Ser	Gly	Leu	Gln	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Ser	Pro	Gly
			100					105					110		

Glu	Gln	Gly	Pro	Ser	Gly	Ala	Ser	Gly	Pro	Ala	Gly	Pro	Arg	Gly	Pro
		115						120					125		

Pro	Gly	Ser	Ala	Gly	Ala	Pro	Gly	Lys	Asp	Gly	Leu	Asn	Gly	Leu	Pro
	130						135				140				

Gly	Pro	Ile	Gly	Pro	Pro	Gly	Pro	Arg	Gly	Arg	Thr	Gly	Asp	Ala	Gly
145						150				155					160

Pro	Val	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Pro
					165				170					175	

Pro	Ser	Ala	Gly	Phe	Asp	Phe	Ser	Phe	Leu	Pro	Gln	Pro	Pro	Gln	Glu
			180					185						190	

Lys	Ala	His	Asp	Gly	Gly	Arg	Tyr	Tyr	Arg	Ala	Asp	Asp	Ala	Asn	Val
		195						200				205			

## 5590

Val Arg Asp Arg Asp Leu Glu Val Asp Thr Thr Leu Lys Ser Leu Ser  
 210 215 220  
 Gln Gln Ile Glu Asn Ile Arg Ser Pro Glu Gly Ser Arg Lys Asn Pro  
 225 230 235 240  
 Ala Arg Thr Cys Arg Asp Leu Lys Met Cys His Ser Asp Trp Lys Ser  
 245 250 255  
 Gly Glu Tyr Trp Ile Asp Pro Asn Gln Gly Cys Asn Leu Asp Ala Ile  
 260 265 270  
 Lys Val Phe Cys Asn Met Glu Thr Gly Glu Thr Cys Val Tyr Pro Thr  
 275 280 285  
 Gln Pro Ser Val Ala Gln Lys Asn Trp Tyr Ile Ser Lys Asn Pro Lys  
 290 295 300  
 Asp Lys Arg His Val Trp Phe Gly Glu Ser Met Thr Asp Gly Phe Gln  
 305 310 315 320  
 Phe Glu Tyr Gly Gly Gln Gly Ser Asp Pro Ala Asp Val Ala Ile Gln  
 325 330 335  
 Leu Thr Phe Leu Arg Leu Met Ser Thr Glu Ala Ser Gln Asn Ile Thr  
 340 345 350  
 Tyr His Cys Lys Asn Ser Val Ala Tyr Met Asp Gln Gln Thr Gly Asn  
 355 360 365  
 Leu Lys Lys Ala Leu Leu Leu Gln Gly Ser Asn Glu Ile Glu Ile Arg  
 370 375 380  
 Ala Glu Gly Asn Ser Arg Phe Thr Tyr Ser Val Thr Val Asp Gly Cys  
 385 390 395 400  
 Thr Ser His Thr Gly Ala Trp Gly Lys Thr Val Ile Glu Tyr Lys Thr  
 405 410 415  
 Thr Lys Thr Ser Arg Leu Pro Ile Ile Asp Val Ala Pro Leu Asp Val  
 420 425 430  
 Gly Ala Pro Asp Gln Glu Phe Gly Phe  
 435 440

&lt;210&gt; 6358

&lt;211&gt; 458

&lt;212&gt; PRT

## 5591

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6358

```

Arg Arg Ser Pro Leu Thr Ala Pro Leu Thr Thr Thr Asn Pro Tyr Ser
 1              5              10              15

Thr Arg Leu Val Cys Pro Thr Leu Gly Asp Ala Glu Pro Gln Pro Arg
          20              25              30

Pro Arg Pro Lys His Ser Phe Asn Trp Tyr Cys Gly Xaa Arg Gly Phe
          35              40              45

Cys Leu Leu Gln Leu Ala Pro Ala Ala Gly Arg Ser Cys Asp Ser Ala
 50              55              60

Glu Ser Arg Arg Arg Val Leu Val Leu Thr Arg Arg Ala Met Thr Val
 65              70              75              80

Ala Arg Pro Ser Val Pro Ala Ala Leu Pro Leu Leu Gly Glu Leu Pro
          85              90              95

Arg Leu Leu Leu Leu Val Leu Leu Cys Leu Pro Ala Val Trp Gly Asp
          100              105              110

Cys Gly Leu Pro Pro Asp Val Pro Asn Ala Gln Pro Ala Leu Glu Gly
          115              120              125

Arg Thr Ser Phe Pro Glu Asp Thr Val Ile Thr Tyr Lys Cys Glu Glu
          130              135              140

Ser Phe Val Lys Ile Pro Gly Glu Lys Asp Ser Val Ile Cys Leu Lys
          145              150              155              160

Gly Ser Gln Trp Ser Asp Ile Glu Glu Phe Cys Asn Arg Ser Cys Glu
          165              170              175

Val Pro Thr Arg Leu Asn Ser Ala Ser Leu Lys Gln Pro Tyr Ile Thr
          180              185              190

Gln Asn Tyr Phe Pro Val Gly Thr Val Val Glu Tyr Glu Cys Arg Pro
          195              200              205

Gly Tyr Arg Arg Glu Pro Ser Leu Ser Pro Lys Leu Thr Cys Leu Gln
          210              215              220

Asn Leu Lys Trp Ser Thr Ala Val Glu Phe Cys Lys Lys Lys Ser Cys

```

## 5592

225					230						235					240
Pro	Asn	Pro	Gly	Glu	Ile	Arg	Asn	Gly	Gln	Ile	Asp	Val	Pro	Gly	Gly	
				245					250					255		
Ile	Leu	Phe	Gly	Ala	Thr	Ile	Ser	Phe	Ser	Cys	Asn	Thr	Gly	Tyr	Lys	
			260					265					270			
Leu	Phe	Gly	Ser	Thr	Ser	Ser	Phe	Cys	Leu	Ile	Ser	Gly	Ser	Ser	Val	
		275					280					285				
Gln	Trp	Ser	Asp	Pro	Leu	Pro	Glu	Cys	Arg	Glu	Ile	Tyr	Cys	Pro	Ala	
	290					295					300					
Pro	Pro	Gln	Ile	Asp	Asn	Gly	Ile	Ile	Gln	Gly	Glu	Arg	Asp	His	Tyr	
305					310					315					320	
Gly	Tyr	Arg	Gln	Ser	Val	Thr	Tyr	Ala	Cys	Asn	Lys	Gly	Phe	Thr	Met	
				325					330					335		
Ile	Gly	Glu	His	Ser	Ile	Tyr	Cys	Thr	Val	Asn	Asn	Asp	Glu	Gly	Glu	
			340					345					350			
Trp	Ser	Gly	Pro	Pro	Pro	Glu	Cys	Arg	Gly	Lys	Ser	Leu	Thr	Ser	Lys	
		355					360					365				
Val	Pro	Pro	Thr	Val	Gln	Lys	Pro	Thr	Thr	Val	Asn	Val	Pro	Thr	Thr	
	370					375					380					
Glu	Val	Ser	Pro	Thr	Ser	Gln	Lys	Thr	Thr	Thr	Lys	Thr	Thr	Thr	Pro	
385						390				395					400	
Asn	Ala	Gln	Ala	Thr	Arg	Ser	Thr	Pro	Val	Ser	Arg	Thr	Thr	Lys	His	
				405					410					415		
Phe	His	Glu	Thr	Thr	Pro	Asn	Lys	Gly	Ser	Gly	Thr	Thr	Ser	Gly	Thr	
			420					425					430			
Thr	Arg	Leu	Leu	Ser	Gly	His	Thr	Cys	Phe	Thr	Leu	Thr	Gly	Leu	Leu	
		435					440					445				
Gly	Thr	Leu	Val	Thr	Met	Gly	Leu	Leu	Thr							
	450					455										

&lt;210&gt; 6359

&lt;211&gt; 133

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

## 5593

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6359

Thr	Asn	His	Ala	Asn	Val	Asn	Glu	Gly	Xaa	Val	Pro	Xaa	Xaa	Met	Leu
1				5				10						15	

Val	Ala	Asn	Asp	Gln	Met	Ala	Leu	Gly	Ala	Met	Arg	Ala	Ile	Thr	Glu
		20						25					30		

Ser	Gly	Leu	Arg	Val	Gly	Ala	Asp	Ile	Ser	Val	Val	Gly	Tyr	Asp	Asp
		35					40					45			

Thr	Glu	Asp	Ser	Ser	Cys	Tyr	Ile	Pro	Pro	Leu	Thr	Thr	Ile	Lys	Gln
	50					55					60				

Asp	Phe	Arg	Leu	Leu	Gly	Gln	Thr	Ser	Val	Asp	Arg	Leu	Leu	Gln	Leu
65					70					75				80	

Ser	Gln	Gly	Gln	Ala	Val	Lys	Gly	Asn	Gln	Leu	Leu	Pro	Val	Ser	Leu
				85				90						95	

Val	Lys	Arg	Lys	Thr	Thr	Leu	Ala	Pro	Asn	Thr	Gln	Thr	Ala	Ser	Pro
			100					105					110		

Arg	Ala	Leu	Ala	Asp	Ser	Leu	Met	Gln	Leu	Ala	Arg	Gln	Val	Ser	Arg
		115					120					125			

Leu	Glu	Ser	Gly	Gln
				130

&lt;210&gt; 6360

&lt;211&gt; 332

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

## 5594

&lt;221&gt; SITE

&lt;222&gt; (199)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (255)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6360

Arg	Glu	Gln	Lys	Leu	Glu	Leu	His	Arg	Gly	Gly	Gly	Arg	Ser	Arg	Thr
1				5					10					15	

Ser	Gly	Ser	Pro	Gly	Leu	Gln	Glu	Phe	Gly	Thr	Ser	Arg	Ala	Pro	Ala
			20					25					30		

Ser	Cys	Pro	Ser	Arg	Gln	Glu	Glu	Trp	Gly	Leu	Thr	Ser	Thr	Ser	Val
		35				40						45			

Leu	Lys	Arg	Glu	Ala	Pro	Ala	Gly	Arg	Asp	Pro	Glu	Glu	Pro	Gly	Asp
50						55					60				

Val	Gly	Ala	Gly	Asp	Pro	Asn	Ser	Asp	Gln	Gly	Leu	Pro	Val	Leu	Met
65					70					75					80

Thr	Gln	Gly	Thr	Glu	Asp	Leu	Lys	Gly	Pro	Gly	Gln	Arg	Cys	Glu	Asn
				85					90					95	

Glu	Pro	Leu	Leu	Asp	Pro	Val	Gly	Pro	Glu	Pro	Leu	Gly	Pro	Glu	Ser
		100						105					110		

Gln	Ser	Gly	Lys	Gly	Asp	Met	Val	Glu	Met	Ala	Thr	Arg	Phe	Gly	Ser
		115					120					125			

Thr	Leu	Gln	Leu	Asp	Leu	Glu	Lys	Gly	Lys	Glu	Ser	Leu	Leu	Glu	Lys
130						135					140				

Arg	Leu	Val	Ala	Glu	Glu	Glu	Glu	Asp	Glu	Glu	Glu	Val	Glu	Glu	Asp
145					150					155					160

Gly	Pro	Ser	Ser	Cys	Ser	Glu	Asp	Asp	Tyr	Ser	Glu	Leu	Leu	Gln	Glu
				165					170					175	

Ile	Thr	Asp	Asn	Leu	Thr	Lys	Lys	Glu	Ile	Gln	Ile	Glu	Lys	Ile	His
			180					185					190		

Leu	Asp	Thr	Ser	Ser	Phe	Xaa	Glu	Glu	Leu	Pro	Gly	Glu	Lys	Asp	Leu
		195					200					205			

Ala	His	Val	Val	Glu	Ile	Tyr	Asp	Phe	Glu	Pro	Ala	Leu	Lys	Thr	Glu
	210					215					220				

## 5595

Asp Leu Leu Ala Thr Phe Ser Glu Phe Gln Glu Lys Gly Phe Arg Ile  
 225 230 235 240

Gln Trp Val Asp Asp Thr His Ala Leu Gly Ile Phe Pro Cys Xaa Ala  
 245 250 255

Ser Ala Ala Glu Ala Leu Thr Arg Glu Phe Ser Val Leu Lys Ile Arg  
 260 265 270

Pro Leu Thr Gln Gly Thr Lys Gln Ser Lys Leu Lys Ala Leu Gln Arg  
 275 280 285

Pro Lys Leu Leu Arg Leu Val Lys Glu Arg Pro Gln Thr Asn Ala Thr  
 290 295 300

Val Ala Arg Arg Leu Val Ala Arg Ala Leu Gly Leu Gln His Lys Lys  
 305 310 315 320

Lys Glu Arg Pro Ala Val Arg Gly Pro Leu Pro Pro  
 325 330

<210> 6361

<211> 258

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6361

Pro Gly Arg Gly Phe Gln Arg Phe Phe Lys Ala Val Glu Pro Lys Trp  
 1 5 10 15

Asp Leu Lys Thr Asp Trp Gln Ile Ile Ser Glu Ile Ala Thr Arg Met  
 20 25 30

Gly Tyr Pro Met His Tyr Asn Asn Thr Gln Glu Ile Trp Asp Glu Leu  
 35 40 45

Arg His Leu Cys Pro Asp Phe Tyr Gly Ala Thr Tyr Glu Lys Met Gly  
 50 55 60

Glu Leu Gly Phe Ile Gln Trp Pro Cys Arg Asp Thr Ser Asp Ala Asp  
 65 70 75 80

Gln Gly Thr Ser Tyr Leu Phe Lys Glu Lys Phe Asp Thr Pro Asn Gly

[illegible]

<211> 38

<212> PRT

<213> Homo sapiens

<400> 6362

Phe Cys Ile Phe Leu Val Glu Thr Gly Phe Leu His Val Gly Gln Gly  
1 5 10 15

Ser Pro Glu Leu Leu Thr Ser Ser Asp Leu Pro Ala Ser Ala Ser Gln  
20 25 30

Val Leu Gly Leu Gln Ala  
35



5597

&lt;210&gt; 6363

&lt;211&gt; 232

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6363

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Leu Pro Val Pro Gly Arg Gly Arg Val Phe Phe Glu Asp Leu Gly Leu
 1             5             10             15

Arg Asp Thr Val Arg Met Ala Val Val Pro Leu Leu Leu Leu Gly Gly
      20             25             30

Leu Trp Ser Ala Val Gly Ala Ser Ser Leu Gly Val Val Thr Cys Gly
      35             40             45

Ser Val Val Lys Leu Leu Asn Thr Arg His Asn Val Arg Leu His Ser
      50             55             60

His Asp Val Arg Tyr Gly Ser Gly Ser Gly Gln Gln Ser Val Thr Gly
      65             70             75             80

Val Thr Ser Val Asp Asp Ser Asn Ser Tyr Trp Arg Ile Arg Gly Lys
      85             90             95

Ser Ala Thr Val Cys Glu Arg Gly Thr Pro Ile Lys Cys Gly Gln Pro
      100            105            110

Ile Arg Leu Thr His Val Asn Thr Gly Arg Asn Leu His Ser His His
      115            120            125

Phe Thr Ser Pro Leu Ser Gly Asn Gln Glu Val Ser Ala Phe Gly Glu
      130            135            140

Glu Gly Glu Gly Asp Tyr Leu Asp Asp Trp Thr Val Leu Cys Asn Gly
      145            150            155            160

Pro Tyr Trp Val Arg Asp Gly Glu Val Arg Phe Lys His Ser Ser Thr
      165            170            175

Glu Val Leu Leu Ser Val Thr Gly Glu Gln Tyr Gly Arg Pro Ile Ser
      180            185            190

Gly Gln Lys Glu Val His Gly Met Ala Gln Pro Ser Gln Asn Asn Tyr
      195            200            205

Trp Lys Ala Met Glu Gly Ile Phe Met Lys Pro Ser Glu Leu Leu Lys
      210            215            220

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## 5598

Ala Glu Ala His His Ala Glu Leu  
225 230

<210> 6364

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6364

Lys Asp Lys Pro Gln Thr Arg Arg Lys Tyr Leu Ser Asn Thr Ser Tyr  
1 5 10 15

Lys Gly Leu Val Ser Lys Ile Tyr Gln Glu Leu Leu Xaa His Asn Lys  
20 25 30

Glu Lys Ile Leu Lys Xaa Ser Lys Lys Ser Xaa Xaa Met Tyr His Gln  
35 40 45

Arg

<210> 6365

<211> 74

<212> PRT

<213> Homo sapiens

<400> 6365

## 5599

Glu Phe Gly Thr Ser Gly Tyr Ile Phe Leu His Leu Gln Leu Pro His  
 1 5 10 15

Gly Val Leu Ile Arg Leu Lys Ser Asn Asn Gly Tyr Lys Asn Thr Leu  
 20 25 30

Lys Ser Arg His Gly Phe Leu Leu Thr Ala Met Arg Glu Phe Leu Glu  
 35 40 45

Leu Asp Leu Asp Gly Pro Lys Gln Leu Glu Asn Trp Thr Lys Asp Ile  
 50 55 60

Lys Lys Lys Leu Phe Ser Thr Ile Gly Gln  
 65 70

<210> 6366

<211> 129

<212> PRT

<213> Homo sapiens

<400> 6366

Gly Arg Gly Lys Ser Gly Pro Gly Leu Pro Gln Ser Cys Leu Leu Cys  
 1 5 10 15

Ala Val Asn Gly Phe Asn Thr Leu Gly Glu Asn Ile Ala Asp Asn Gly  
 20 25 30

Gly Val Arg Gln Ala Tyr Lys Ala Tyr Leu Lys Trp Met Ala Glu Gly  
 35 40 45

Gly Lys Asp Gln Gln Leu Pro Gly Leu Asp Leu Thr His Glu Gln Leu  
 50 55 60

Phe Phe Ile Asn Tyr Ala Gln Val Trp Cys Gly Ser Tyr Arg Pro Glu  
 65 70 75 80

Phe Ala Ile Gln Ser Ile Lys Thr Asp Val His Ser Pro Leu Lys Tyr  
 85 90 95

Arg Val Leu Gly Ser Leu Gln Asn Leu Ala Ala Phe Ala Asp Thr Phe  
 100 105 110

His Cys Ala Arg Gly Thr Pro Met His Pro Lys Glu Arg Cys Arg Val  
 115 120 125

Trp

## 5600

&lt;210&gt; 6367

&lt;211&gt; 469

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (81)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6367

Pro	Val	Ala	Val	Gly	Arg	Val	Arg	Val	Thr	Ala	Glu	Gly	Arg	Xaa	Met
1				5					10					15	

Val	Leu	Gln	Thr	Thr	Lys	Gly	Leu	Arg	Leu	Leu	Phe	Asp	Gly	Asp	Ala
			20					25					30		

His	Leu	Leu	Met	Ser	Ile	Pro	Ser	Pro	Phe	Arg	Gly	Arg	Leu	Cys	Gly
			35				40					45			

Leu	Cys	Gly	Asn	Phe	Asn	Gly	Asn	Trp	Ser	Asp	Asp	Phe	Val	Leu	Pro
	50					55					60				

Asn	Gly	Ser	Ala	Ala	Ser	Ser	Val	Glu	Thr	Phe	Gly	Ala	Ala	Trp	Arg
65					70					75				80	

Xaa	Pro	Gly	Ser	Ser	Lys	Gly	Cys	Gly	Glu	Gly	Cys	Gly	Pro	Gln	Gly
				85					90					95	

Cys	Pro	Val	Cys	Leu	Ala	Glu	Glu	Thr	Ala	Pro	Tyr	Glu	Ser	Asn	Glu
			100					105					110		

Ala	Cys	Gly	Gln	Leu	Arg	Asn	Pro	Gln	Gly	Pro	Phe	Ala	Thr	Cys	Gln
			115				120					125			

Ala	Val	Leu	Ser	Pro	Ser	Glu	Tyr	Phe	Arg	Gln	Cys	Val	Tyr	Asp	Leu
	130					135					140				

Cys	Ala	Gln	Lys	Gly	Asp	Lys	Ala	Phe	Leu	Cys	Arg	Ser	Leu	Ala	Ala
145					150					155				160	

Tyr	Thr	Ala	Ala	Cys	Gln	Ala	Ala	Gly	Val	Ala	Val	Lys	Pro	Trp	Arg
				165				170						175	

Thr	Asp	Ser	Phe	Cys	Pro	Leu	His	Cys	Pro	Ala	His	Ser	His	Tyr	Ser
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 5601

180	185	190
Ile Cys Thr Arg Thr Cys Gln Gly Ser Cys Ala Ala Leu Ser Gly Leu		
195	200	205
Thr Gly Cys Thr Thr Arg Cys Phe Glu Gly Cys Glu Cys Asp Asp Arg		
210	215	220
Phe Leu Leu Ser Gln Gly Val Cys Ile Pro Val Gln Asp Cys Gly Cys		
225	230	235
Thr His Asn Gly Arg Tyr Leu Pro Val Asn Ser Ser Leu Leu Thr Ser		
245	250	255
Asp Cys Ser Glu Arg Cys Ser Cys Ser Ser Ser Ser Gly Leu Thr Cys		
260	265	270
Gln Ala Ala Gly Cys Pro Pro Gly Arg Val Cys Glu Val Lys Ala Glu		
275	280	285
Ala Arg Asn Cys Trp Ala Thr Arg Gly Leu Cys Val Leu Ser Val Gly		
290	295	300
Ala Asn Leu Thr Thr Phe Asp Gly Ala Arg Gly Ala Thr Thr Ser Pro		
305	310	315
Gly Val Tyr Glu Leu Ser Ser Arg Cys Pro Gly Leu Gln Asn Thr Ile		
325	330	335
Pro Trp Tyr Arg Val Val Ala Glu Val Gln Ile Cys His Gly Lys Thr		
340	345	350
Glu Ala Val Gly Gln Val His Ile Phe Phe Gln Asp Gly Met Val Thr		
355	360	365
Leu Thr Pro Asn Lys Gly Val Trp Val Asn Gly Leu Arg Val Asp Leu		
370	375	380
Pro Ala Glu Lys Leu Ala Ser Val Ser Val Ser Arg Thr Pro Asp Gly		
385	390	395
Ser Leu Leu Val Arg Gln Lys Ala Gly Val Gln Val Trp Leu Gly Ala		
405	410	415
Asn Gly Lys Val Ala Val Ile Val Ser Asn Asp His Ala Gly Lys Leu		
420	425	430
Cys Gly Ala Cys Gly Asn Phe Asp Gly Asp Gln Thr Asn Asp Trp His		
435	440	445
Asp Ser Gln Glu Lys Pro Ala Met Glu Lys Trp Arg Ala Gln Asp Phe		

## 5602

450

455

460

Ser Pro Cys Tyr Gly  
465

&lt;210&gt; 6368

&lt;211&gt; 705

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (244)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (337)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6368

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr  
1 5 10 15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Asn Cys Asn Leu  
20 25 30

Glu Asp Leu Asp Asn Trp Thr Ala Leu Ile Ser Ala Ser Lys Glu Gly  
35 40 45

His Val His Ile Val Glu Glu Leu Leu Lys Cys Gly Val Asn Leu Glu  
50 55 60

His Arg Asp Met Gly Gly Trp Thr Ala Leu Met Trp Ala Cys Tyr Lys  
65 70 75 80

Gly Arg Thr Asp Val Val Glu Leu Leu Leu Ser His Gly Ala Asn Pro  
85 90 95

Ser Val Thr Gly Leu Tyr Ser Val Tyr Pro Ile Ile Trp Ala Ala Gly  
100 105 110

Arg Gly His Ala Asp Ile Val His Leu Leu Leu Gln Asn Gly Ala Lys  
115 120 125

Val Asn Cys Ser Asp Lys Tyr Gly Thr Thr Pro Leu Val Trp Ala Ala  
130 135 140

Arg Lys Gly His Leu Glu Cys Val Lys His Leu Leu Ala Met Gly Ala

## 5603

145		150		155		160
Asp Val Asp Gln Glu Gly Ala Asn Ser Met Thr Ala Leu Ile Val Ala						
	165		170		175	
Val Lys Gly Gly Tyr Thr Gln Ser Val Lys Glu Ile Leu Lys Arg Asn						
	180		185		190	
Pro Asn Val Asn Leu Thr Asp Lys Asp Gly Asn Thr Ala Leu Met Ile						
	195		200		205	
Ala Ser Lys Glu Gly His Thr Glu Ile Val Gln Asp Leu Leu Asp Ala						
	210		215		220	
Gly Thr Tyr Val Asn Ile Pro Asp Arg Ser Gly Asp Thr Val Leu Ile						
225		230		235		240
Gly Ala Val Xaa Gly Gly His Val Glu Ile Val Arg Ala Leu Leu Gln						
	245		250		255	
Lys Tyr Ala Asp Ile Asp Ile Arg Gly Gln Asp Asn Lys Thr Ala Leu						
	260		265		270	
Tyr Trp Ala Val Glu Lys Gly Asn Ala Thr Met Val Arg Asp Ile Leu						
	275		280		285	
Gln Cys Asn Pro Asp Thr Glu Ile Cys Thr Lys Asp Gly Glu Thr Pro						
	290		295		300	
Leu Ile Lys Ala Thr Lys Met Arg Asn Ile Glu Val Val Glu Leu Leu						
305		310		315		320
Leu Asp Lys Gly Ala Lys Val Ser Ala Val Asp Lys Lys Gly Asp Thr						
	325		330		335	
Xaa Leu His Ile Ala Ile Arg Gly Arg Ser Arg Lys Leu Ala Glu Leu						
	340		345		350	
Leu Leu Arg Asn Pro Lys Asp Gly Arg Leu Leu Tyr Arg Pro Asn Lys						
	355		360		365	
Ala Gly Glu Thr Pro Tyr Asn Ile Asp Cys Ser His Gln Lys Ser Ile						
	370		375		380	
Leu Thr Gln Ile Phe Gly Ala Arg His Leu Ser Pro Thr Glu Thr Asp						
385		390		395		400
Gly Asp Met Leu Gly Tyr Asp Leu Tyr Ser Ser Ala Leu Ala Asp Ile						
	405		410		415	
Leu Ser Glu Pro Thr Met Gln Pro Pro Ile Cys Val Gly Leu Tyr Ala						

## 5604

										420											425											430																					
Gln	Trp	Gly	Ser	Gly	Lys	Ser	Phe	Leu	Leu	Lys	Lys	Leu	Glu	Asp	Glu																																						
										435											440											445																					
Met	Lys	Thr	Phe	Ala	Gly	Gln	Gln	Ile	Glu	Pro	Leu	Phe	Gln	Phe	Ser																																						
										450											455											460																					
Trp	Leu	Ile	Val	Phe	Leu	Thr	Leu	Leu	Leu	Cys	Gly	Gly	Leu	Gly	Leu																																						
										465											470											475											480										
Leu	Phe	Ala	Phe	Thr	Val	His	Pro	Asn	Leu	Gly	Ile	Ala	Val	Ser	Leu																																						
																				485											490											495											
Ser	Phe	Leu	Ala	Leu	Leu	Tyr	Ile	Phe	Phe	Ile	Val	Ile	Tyr	Phe	Gly																																						
																				500											505											510											
Gly	Arg	Arg	Glu	Gly	Glu	Ser	Trp	Asn	Trp	Ala	Trp	Val	Leu	Ser	Thr																																						
																				515											520											525											
Arg	Leu	Ala	Arg	His	Ile	Gly	Tyr	Leu	Glu	Leu	Leu	Leu	Lys	Leu	Met																																						
																				530											535											540											
Phe	Val	Asn	Pro	Pro	Glu	Leu	Pro	Glu	Gln	Thr	Thr	Lys	Ala	Leu	Pro																																						
																				545											550											555											560
Val	Arg	Phe	Leu	Phe	Thr	Asp	Tyr	Asn	Arg	Leu	Ser	Ser	Val	Gly	Gly																																						
																														565											570											575	
Glu	Thr	Ser	Leu	Ala	Glu	Met	Ile	Ala	Thr	Leu	Ser	Asp	Ala	Cys	Glu																																						
																				580											585											590											
Arg	Glu	Phe	Gly	Phe	Leu	Ala	Thr	Arg	Leu	Phe	Arg	Val	Phe	Lys	Thr																																						
																				595											600											605											
Glu	Asp	Thr	Gln	Gly	Lys	Lys	Lys	Lys	Lys	Asn	Ser	Arg	Gly	Gly	Pro																																						
																				610											615											620											
Val	Pro	Asn	Ser	Pro	Tyr	Ser	Glu	Ser	Tyr	Tyr	Asn	Ser	Leu	Ala	Val																																						
																				625											630											635											640
Val	Leu	Gln	Arg	Arg	Asp	Trp	Glu	Asn	Pro	Gly	Val	Thr	Gln	Leu	Asn																																						
																														645											650											655	
Arg	Leu	Ala	Ala	His	Pro	Pro	Phe	Ala	Ser	Trp	Arg	Asn	Ser	Glu	Glu																																						
																				660											665											670											
Ala	Arg	Thr	Asp	Arg	Pro	Ser	Gln	Gln	Leu	Arg	Ser	Leu	Asn	Gly	Glu																																						
																				675											680											685											
Trp	Gln	Ile	Val	Ser	Val	Asn	Ile	Leu	Leu	Lys	Phe	Ala	Leu	Asn	Phe																																						



## 5605

690

695

700

Cys

705

&lt;210&gt; 6369

&lt;211&gt; 294

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (234)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (242)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (247)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (249)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (251)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (259)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (272)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (282)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5606

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (292)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6369

Gly	Lys	Leu	Val	Arg	Leu	Gln	Val	Pro	Val	Arg	Asn	Ser	Arg	Val	Asp
1				5				10						15	
Pro	Arg	Val	Arg	Pro	Ser	Ser	Trp	Phe	Ala	His	Gly	His	Pro	Leu	Tyr
			20					25					30		
Thr	Arg	Leu	Pro	Pro	Ser	Ala	Leu	Gln	Val	Leu	Ser	Ala	Gln	Gly	Thr
		35					40					45			
Gln	Ala	Leu	Gln	Ala	Ala	Gln	Arg	Ser	Ala	Gln	Trp	Ala	Ile	Asn	Arg
	50					55					60				
Val	Ala	Met	Glu	Ile	Gln	His	Arg	Ser	His	Glu	Cys	Arg	Gly	Ser	Gly
65					70					75					80
Arg	Pro	Arg	Pro	Gln	Ala	Leu	Leu	Gln	Asp	Pro	Pro	Glu	Pro	Gly	Pro
				85					90					95	
Cys	Gly	Glu	Arg	Arg	Pro	Ser	Thr	Ala	Asn	Val	Thr	Arg	Ala	His	Gly
			100					105					110		
Arg	Ile	Val	Gly	Gly	Ser	Ala	Ala	Pro	Pro	Gly	Ala	Trp	Pro	Trp	Leu
		115					120					125			
Val	Arg	Leu	Gln	Leu	Gly	Gly	Gln	Pro	Leu	Cys	Gly	Gly	Val	Leu	Val
	130					135					140				
Ala	Ala	Ser	Trp	Val	Leu	Thr	Ala	Ala	His	Cys	Phe	Val	Gly	Ala	Pro
145					150					155					160
Asn	Glu	Leu	Leu	Trp	Thr	Val	Thr	Leu	Ala	Glu	Gly	Ser	Arg	Gly	Glu
				165					170					175	
Gln	Ala	Glu	Glu	Val	Pro	Val	Asn	Arg	Ile	Leu	Pro	His	Pro	Lys	Phe
		180						185					190		
Asp	Pro	Arg	Thr	Phe	His	Asn	Asp	Leu	Ala	Leu	Val	Gln	Leu	Trp	Thr
		195					200						205		
Pro	Val	Thr	Arg	Gly	Asp	Arg	Arg	Ala	Pro	Cys	Ala	Cys	Pro	Gly	Ala
	210					215					220				
Pro	Gly	Ala	Pro	Cys	Arg	Asn	Arg	Leu	Xaa	His	Arg	Gly	Leu	Gly	Arg
225					230					235					240

## 5607

[illegible]

<210> 6370

<211> 294

&lt;212&gt; PRT

<213> Homo sapiens

 $\langle 220 \rangle$ 

&lt;221&gt; SITE

<222> (239)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6370

Leu Ser Phe Gly Pro Ser Gly Arg Thr Leu Pro Thr Thr Thr Arg Arg  
1 5 10 15

Met Thr Leu Lys Thr Pro Trp Arg Ser Leu Gly Gly Ser Trp Cys Thr  
20 25 30

Ala Thr Ser Ser Gly Pro Pro Gln Tyr Pro Met Ile Leu Ser Ser Leu  
35 40 45

Leu Gly Ser Gly Ile Gln Leu Phe Cys Met Ile Leu Ile Val Ile Phe  
50 55 60

Val	Ala	Met	Leu	Gly	Met	Leu	Ser	Pro	Ser	Ser	Arg	Gly	Ala	Leu	Met
65					70					75					80

Thr Thr Ala Cys Phe Leu Phe Met Phe Met Gly Val Phe Gly Gly Phe  
85 90 95

Ser Ala Gly Arg Leu Tyr Arg Thr Leu Lys Gly His Arg Trp Lys Lys  
100 105 110

Gly Ala Phe Cys Thr Ala Thr Leu Tyr Pro Gly Val Val Phe Gly Ile  
115 120 125

Cys Phe Val Leu Asn Cys Phe Ile Trp Gly Lys His Ser Ser Gly Ala

## 5608

130                      135                      140  
 Val Pro Phe Pro Thr Met Val Ala Leu Leu Cys Met Trp Phe Gly Ile  
 145                      150                      155                      160  
 Ser Leu Pro Leu Val Tyr Leu Gly Tyr Tyr Phe Gly Phe Arg Lys Gln  
                          165                      170                      175  
 Pro Tyr Asp Asn Pro Val Arg Thr Asn Gln Ile Pro Arg Gln Ile Pro  
                          180                      185                      190  
 Glu Gln Arg Trp Tyr Met Asn Arg Phe Val Gly Ile Leu Met Ala Gly  
                          195                      200                      205  
 Ile Leu Pro Phe Gly Ala Met Phe Ile Glu Leu Phe Phe Ile Phe Ser  
                          210                      215                      220  
 Ala Ile Trp Glu Asn Gln Phe Tyr Tyr Leu Phe Gly Phe Leu Xaa Leu  
 225                      230                      235                      240  
 Val Phe Ile Ile Leu Val Val Ser Cys Ser Gln Ile Ser Ile Val Met  
                          245                      250                      255  
 Val Tyr Phe Gln Leu Cys Ala Glu Asp Tyr Arg Trp Trp Trp Arg Asn  
                          260                      265                      270  
 Phe Leu Val Ser Gly Gly Ser Ala Phe Tyr Val Leu Val Tyr Ala Ile  
                          275                      280                      285  
 Phe Tyr Phe Val Asn Lys  
                          290

&lt;210&gt; 6371

&lt;211&gt; 944

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6371

Ser Lys Lys Met Val Phe Leu Pro Leu Lys Trp Ser Leu Ala Thr Met  
 1                      5                      10                      15  
 Ser Phe Leu Leu Ser Ser Leu Leu Ala Leu Leu Thr Val Ser Thr Pro  
                          20                      25                      30  
 Ser Trp Cys Gln Ser Thr Glu Ala Ser Pro Lys Arg Ser Asp Gly Thr  
                          35                      40                      45  
 Pro Phe Pro Trp Asn Lys Ile Arg Leu Pro Glu Tyr Val Ile Pro Val  
                          50                      55                      60

## 5609

His	Tyr	Asp	Leu	Leu	Ile	His	Ala	Asn	Leu	Thr	Thr	Leu	Thr	Phe	Trp	65	70	75	80
Gly	Thr	Thr	Lys	Val	Glu	Ile	Thr	Ala	Ser	Gln	Pro	Thr	Ser	Thr	Ile	85	90	95	
Ile	Leu	His	Ser	His	His	Leu	Gln	Ile	Ser	Arg	Ala	Thr	Leu	Arg	Lys	100	105	110	
Gly	Ala	Gly	Glu	Arg	Leu	Ser	Glu	Glu	Pro	Leu	Gln	Val	Leu	Glu	His	115	120	125	
Pro	Pro	Gln	Glu	Gln	Ile	Ala	Leu	Leu	Ala	Pro	Glu	Pro	Leu	Leu	Val	130	135	140	
Gly	Leu	Pro	Tyr	Thr	Val	Val	Ile	His	Tyr	Ala	Gly	Asn	Leu	Ser	Glu	145	150	155	160
Thr	Phe	His	Gly	Phe	Tyr	Lys	Ser	Thr	Tyr	Arg	Thr	Lys	Glu	Gly	Glu	165	170	175	
Leu	Arg	Ile	Leu	Ala	Ser	Thr	Gln	Phe	Glu	Pro	Thr	Ala	Ala	Arg	Met	180	185	190	
Ala	Phe	Pro	Cys	Phe	Asp	Glu	Pro	Ala	Phe	Lys	Ala	Ser	Phe	Ser	Ile	195	200	205	
Lys	Ile	Arg	Arg	Glu	Pro	Arg	His	Leu	Ala	Ile	Ser	Asn	Met	Pro	Leu	210	215	220	
Val	Lys	Ser	Val	Thr	Val	Ala	Glu	Gly	Leu	Ile	Glu	Asp	His	Phe	Asp	225	230	235	240
Val	Thr	Val	Lys	Met	Ser	Thr	Tyr	Leu	Val	Ala	Phe	Ile	Ile	Ser	Asp	245	250	255	
Phe	Glu	Ser	Val	Ser	Lys	Ile	Thr	Lys	Ser	Gly	Val	Lys	Val	Ser	Val	260	265	270	
Tyr	Ala	Val	Pro	Asp	Lys	Met	Asn	Gln	Ala	Asp	Tyr	Ala	Leu	Asp	Ala	275	280	285	
Ala	Val	Thr	Leu	Leu	Glu	Phe	Tyr	Glu	Asp	Tyr	Phe	Ser	Ile	Pro	Tyr	290	295	300	
Pro	Leu	Pro	Lys	Gln	Asp	Leu	Ala	Ala	Ile	Pro	Asp	Phe	Gln	Ser	Gly	305	310	315	320
Ala	Met	Glu	Asn	Trp	Gly	Leu	Thr	Thr	Tyr	Arg	Glu	Ser	Ala	Leu	Leu	325	330	335	

## 5610

Phe Asp Ala Glu Lys Ser Ser Ala Ser Ser Lys Leu Gly Ile Thr Met  
 340 345 350  
 Thr Val Ala His Glu Leu Ala His Gln Trp Phe Gly Asn Leu Val Thr  
 355 360 365  
 Met Glu Trp Trp Asn Asp Leu Trp Leu Asn Glu Gly Phe Ala Lys Phe  
 370 375 380  
 Met Glu Phe Val Ser Val Ser Val Thr His Pro Glu Leu Lys Val Gly  
 385 390 395 400  
 Asp Tyr Phe Phe Gly Lys Cys Phe Asp Ala Met Glu Val Asp Ala Leu  
 405 410 415  
 Asn Ser Ser His Pro Val Ser Thr Pro Val Glu Asn Pro Ala Gln Ile  
 420 425 430  
 Arg Glu Met Phe Asp Asp Val Ser Tyr Asp Lys Gly Ala Cys Ile Leu  
 435 440 445  
 Asn Met Leu Arg Glu Tyr Leu Ser Ala Asp Ala Phe Lys Ser Gly Ile  
 450 455 460  
 Val Gln Tyr Leu Gln Lys His Ser Tyr Lys Asn Thr Lys Asn Glu Asp  
 465 470 475 480  
 Leu Trp Asp Ser Met Ala Ser Ile Cys Pro Thr Asp Gly Val Lys Gly  
 485 490 495  
 Met Asp Gly Phe Cys Ser Arg Ser Gln His Ser Ser Ser Ser Ser His  
 500 505 510  
 Trp His Gln Glu Gly Val Asp Val Lys Thr Met Met Asn Thr Trp Thr  
 515 520 525  
 Leu Gln Arg Gly Phe Pro Leu Ile Thr Ile Thr Val Arg Gly Arg Asn  
 530 535 540  
 Val His Met Lys Gln Glu His Tyr Met Lys Gly Ser Asp Gly Ala Pro  
 545 550 555 560  
 Asp Thr Gly Tyr Leu Trp His Val Pro Leu Thr Phe Ile Thr Ser Lys  
 565 570 575  
 Ser Asp Met Val His Arg Phe Leu Leu Lys Thr Lys Thr Asp Val Leu  
 580 585 590  
 Ile Leu Pro Glu Glu Val Glu Trp Ile Lys Phe Asn Val Gly Met Asn  
 595 600 605

## 5611

Gly	Tyr	Tyr	Ile	Val	His	Tyr	Glu	Asp	Asp	Gly	Trp	Asp	Ser	Leu	Thr	610	615	620	
Gly	Leu	Leu	Lys	Gly	Thr	His	Thr	Ala	Val	Ser	Ser	Asn	Asp	Arg	Ala	625	630	635	640
Ser	Leu	Ile	Asn	Asn	Ala	Phe	Gln	Leu	Val	Ser	Ile	Gly	Lys	Leu	Ser	645	650	655	
Ile	Glu	Lys	Ala	Leu	Asp	Leu	Ser	Leu	Tyr	Leu	Lys	His	Glu	Thr	Glu	660	665	670	
Ile	Met	Pro	Val	Phe	Gln	Gly	Leu	Asn	Glu	Leu	Ile	Pro	Met	Tyr	Lys	675	680	685	
Leu	Met	Glu	Lys	Arg	Asp	Met	Asn	Glu	Val	Glu	Thr	Gln	Phe	Lys	Ala	690	695	700	
Phe	Leu	Ile	Arg	Leu	Leu	Arg	Asp	Leu	Ile	Asp	Lys	Gln	Thr	Trp	Thr	705	710	715	720
Asp	Glu	Gly	Ser	Val	Ser	Glu	Arg	Met	Leu	Arg	Ser	Glu	Leu	Leu	Leu	725	730	735	
Leu	Ala	Cys	Val	His	Asn	Tyr	Gln	Pro	Cys	Val	Gln	Arg	Ala	Glu	Gly	740	745	750	
Tyr	Phe	Arg	Lys	Trp	Lys	Glu	Ser	Asn	Gly	Asn	Leu	Ser	Leu	Pro	Val	755	760	765	
Asp	Val	Thr	Leu	Ala	Val	Phe	Ala	Val	Gly	Ala	Gln	Ser	Thr	Glu	Gly	770	775	780	
Trp	Asp	Phe	Leu	Tyr	Ser	Lys	Tyr	Gln	Phe	Ser	Leu	Ser	Ser	Thr	Glu	785	790	795	800
Lys	Ser	Gln	Ile	Glu	Phe	Ala	Leu	Cys	Arg	Thr	Gln	Asn	Lys	Glu	Lys	805	810	815	
Leu	Gln	Trp	Leu	Leu	Asp	Glu	Ser	Phe	Lys	Gly	Asp	Lys	Ile	Lys	Thr	820	825	830	
Gln	Glu	Phe	Pro	Gln	Ile	Leu	Thr	Leu	Ile	Gly	Arg	Asn	Pro	Val	Gly	835	840	845	
Tyr	Pro	Leu	Ala	Trp	Gln	Phe	Leu	Arg	Lys	Asn	Trp	Asn	Lys	Leu	Val	850	855	860	
Gln	Lys	Phe	Glu	Leu	Gly	Ser	Ser	Ser	Ile	Ala	His	Met	Val	Met	Gly	865	870	875	880

## 5612

Thr Thr Asn Gln Phe Ser Thr Arg Thr Arg Leu Glu Glu Val Lys Gly  
                   885                  890                  895

Phe Phe Ser Ser Leu Lys Glu Asn Gly Ser Gln Leu Arg Cys Val Gln  
                   900                  905                  910

Gln Thr Ile Glu Thr Ile Glu Glu Asn Ile Gly Trp Met Asp Lys Asn  
                   915                  920                  925

Phe Asp Lys Ile Arg Val Trp Leu Gln Ser Glu Lys Leu Glu Arg Met  
                   930                  935                  940

<210> 6372

<211> 377

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6372

Val Arg Asn Gly Ser Phe Cys Ser Pro Gly Ser Glu Pro Pro Gly Ala  
   1                  5                  10                  15

Ala Arg Gly Leu Ala Ala Pro Arg Pro Arg Cys Pro Pro Gly Val Pro  
                   20                  25                  30

Leu Leu Arg Ala Pro Ala Ala Gly Cys Gln Leu Phe Gly Ala Pro Ser  
                   35                  40                  45

Arg Thr Gln Arg Arg Glu Arg Ala Arg Asp Lys Leu Glu Leu Arg Pro  
                   50                  55                  60

Pro Arg Pro Ser Pro Ala Pro Leu Pro Leu Pro Pro Arg Gly Arg Ala  
   65                  70                  75                  80

Pro Thr Met Leu Gln Gly Pro Gly Ser Leu Leu Leu Leu Phe Leu Ala  
                   85                  90                  95

Ser His Cys Cys Leu Gly Ser Ala Arg Gly Leu Phe Leu Phe Gly Gln  
                   100                  105                  110

Pro Asp Phe Ser Tyr Lys Arg Ser Asn Cys Lys Pro Ile Pro Xaa Asn



## 5613

115	120	125
Leu Gln Leu Cys His Gly Ile Glu Tyr Gln Asn Met Arg Leu Pro Asn		
130	135	140
Leu Leu Gly His Glu Thr Met Lys Glu Val Leu Glu Gln Ala Gly Ala		
145	150	155
Trp Ile Pro Leu Val Met Lys Gln Cys His Pro Asp Thr Lys Lys Phe		
	165	170
		175
Leu Cys Ser Leu Phe Ala Pro Val Cys Leu Asp Asp Leu Asp Glu Thr		
	180	185
		190
Ile Gln Pro Cys His Ser Leu Cys Val Gln Val Lys Asp Arg Cys Ala		
	195	200
		205
Pro Val Met Ser Ala Phe Gly Phe Pro Trp Pro Asp Met Leu Glu Cys		
	210	215
		220
Asp Arg Phe Pro Gln Asp Asn Asp Leu Cys Ile Pro Leu Ala Ser Ser		
225	230	235
		240
Asp His Leu Leu Pro Ala Thr Glu Glu Ala Pro Lys Val Cys Glu Ala		
	245	250
		255
Cys Lys Asn Lys Asn Asp Asp Asp Asn Asp Ile Met Glu Thr Leu Cys		
	260	265
		270
Lys Asn Asp Phe Ala Leu Lys Ile Lys Val Lys Glu Ile Thr Tyr Ile		
	275	280
		285
Asn Arg Asp Thr Lys Ile Ile Leu Glu Thr Lys Ser Lys Thr Ile Tyr		
	290	295
		300
Lys Leu Asn Gly Val Ser Glu Arg Asp Leu Lys Lys Ser Val Leu Trp		
305	310	315
		320
Leu Lys Asp Ser Leu Gln Cys Thr Cys Glu Glu Met Asn Asp Ile Asn		
	325	330
		335
Ala Pro Tyr Leu Val Met Gly Gln Lys Gln Gly Gly Glu Leu Val Ile		
	340	345
		350
Thr Ser Val Lys Arg Trp Gln Lys Gly Gln Arg Glu Phe Lys Arg Ile		
	355	360
		365
Ser Arg Ser Ile Arg Lys Leu Gln Cys		
370	375	

## 5614

&lt;210&gt; 6373

&lt;211&gt; 442

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (144)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6373

His	Xaa	Pro	Arg	Leu	Pro	Ala	Leu	Pro	Pro	Arg	Leu	Leu	Ser	Pro	Ser
1				5					10					15	

Ala	Ala	Thr	Met	Ser	Ala	Ser	Ala	Val	Phe	Ile	Leu	Asp	Val	Lys	Gly
			20					25					30		

Lys	Pro	Leu	Ile	Ser	Arg	Asn	Tyr	Lys	Gly	Asp	Val	Ala	Met	Ser	Lys
		35					40					45			

Ile	Glu	His	Phe	Met	Pro	Leu	Leu	Val	Gln	Arg	Glu	Glu	Glu	Gly	Ala
	50					55					60				

Leu	Ala	Pro	Leu	Leu	Ser	His	Gly	Gln	Val	His	Phe	Leu	Trp	Ile	Lys
65					70					75					80

His	Ser	Asn	Leu	Tyr	Leu	Val	Ala	Thr	Thr	Ser	Lys	Asn	Ala	Asn	Ala
			85						90					95	

Ser	Leu	Val	Tyr	Ser	Phe	Leu	Tyr	Lys	Thr	Ile	Glu	Val	Phe	Cys	Glu
			100					105					110		

Tyr	Phe	Lys	Glu	Leu	Glu	Glu	Glu	Ser	Ile	Arg	Asp	Asn	Phe	Val	Ile
		115					120					125			

Val	Tyr	Glu	Leu	Leu	Asp	Glu	Leu	Met	Asp	Phe	Gly	Phe	Pro	Gln	Xaa
	130					135					140				

Thr	Asp	Ser	Lys	Ile	Leu	Gln	Glu	Tyr	Ile	Thr	Gln	Gln	Ser	Asn	Lys
145					150					155					160

Leu	Glu	Thr	Gly	Lys	Ser	Arg	Val	Pro	Pro	Thr	Val	Thr	Asn	Ala	Val
				165					170					175	

Ser	Trp	Arg	Ser	Glu	Gly	Ile	Lys	Tyr	Lys	Lys	Asn	Glu	Val	Phe	Ile
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 5615

180	185	190
Asp Val Ile Glu Ser Val Asn Leu Leu Val Asn Ala Asn Gly Ser Val		
195	200	205
Leu Leu Ser Glu Ile Val Gly Thr Ile Lys Leu Lys Val Phe Leu Ser		
210	215	220
Gly Met Pro Glu Leu Arg Leu Gly Leu Asn Asp Arg Val Leu Phe Glu		
225	230	235
Leu Thr Gly Arg Ser Lys Asn Lys Ser Val Glu Leu Glu Asp Val Lys		
	245	250
Phe His Gln Cys Val Arg Leu Ser Arg Phe Asp Asn Asp Arg Thr Ile		
	260	265
Ser Phe Ile Pro Pro Asp Gly Asp Phe Glu Leu Met Ser Tyr Arg Leu		
	275	280
Ser Thr Gln Val Lys Pro Leu Ile Trp Ile Glu Ser Val Ile Glu Lys		
	290	295
Phe Ser His Ser Arg Val Glu Ile Met Val Lys Ala Lys Gly Gln Phe		
305	310	315
Lys Lys Gln Ser Val Ala Asn Gly Val Glu Ile Ser Val Pro Val Pro		
	325	330
Ser Asp Ala Asp Ser Pro Arg Phe Lys Thr Ser Val Gly Ser Ala Lys		
	340	345
Tyr Val Pro Glu Arg Asn Val Val Ile Trp Ser Ile Lys Ser Phe Pro		
	355	360
Gly Gly Lys Glu Tyr Leu Met Arg Ala His Phe Gly Leu Pro Ser Val		
	370	375
Glu Lys Glu Glu Val Glu Gly Arg Pro Pro Ile Gly Val Lys Phe Glu		
385	390	395
Ile Pro Tyr Phe Thr Val Ser Gly Ile Gln Val Arg Tyr Met Lys Ile		
	405	410
Ile Glu Lys Ser Gly Tyr Gln Ala Leu Pro Trp Val Arg Tyr Ile Thr		
	420	425
Gln Ser Gly Asp Tyr Gln Leu Arg Thr Ser		
435	440	

## 5616

&lt;210&gt; 6374

&lt;211&gt; 347

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6374

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Glu Glu Ala Asp Ala Glu Met Glu Gln Ala Leu His Arg Phe Gly Arg
 1              5              10              15

Gly Leu Val Trp Leu Ser Val Ala Trp Leu Ser Val Gly Arg Val Arg
              20              25              30

Val Arg Asp Asp Gly Asp Thr Gly Arg Gly Phe Cys Arg Ala Gly Pro
              35              40              45

Val Leu Thr Arg Gly Pro Ser Gly Asp Ser Ser Pro Leu Pro Leu Pro
 50              55              60

Thr Ser Val Thr Ala Ala Tyr Lys His Ala Asp Gly Lys Lys Ile Asp
 65              70              75              80

Gly Arg Arg Val Leu Val Asp Val Glu Arg Gly Arg Thr Val Lys Gly
              85              90              95

Trp Arg Pro Arg Arg Leu Gly Gly Gly Leu Gly Gly Thr Arg Arg Gly
              100              105              110

Gly Ala Asp Val Asn Ile Arg His Ser Gly Arg Asp Asp Thr Ser Arg
              115              120              125

Tyr Asp Glu Arg Pro Gly Pro Ser Pro Leu Pro His Arg Asp Arg Asp
 130              135              140

Arg Asp Arg Glu Arg Glu Arg Arg Glu Arg Ser Arg Glu Arg Asp Lys
 145              150              155              160

Glu Arg Glu Arg Arg Arg Ser Arg Ser Arg Asp Arg Arg Arg Arg Ser
              165              170              175

Arg Ser Arg Asp Lys Glu Glu Arg Arg Arg Ser Arg Glu Arg Ser Lys
              180              185              190

Asp Lys Asp Arg Asp Arg Lys Arg Arg Ser Ser Arg Ser Arg Glu Arg
 195              200              205

Ala Arg Arg Glu Arg Glu Arg Lys Glu Glu Leu Arg Gly Gly Gly Gly
 210              215              220

Asp Met Ala Glu Pro Ser Glu Ala Gly Asp Ala Pro Pro Asp Asp Gly
 225              230              235              240

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## 5617

Pro Pro Gly Glu Leu Gly Pro Asp Gly Pro Asp Gly Pro Glu Glu Lys  
                           245                          250                          255  
 Gly Arg Asp Arg Asp Arg Glu Arg Arg Arg Ser His Arg Ser Glu Arg  
                           260                          265                          270  
 Glu Arg Arg Arg Asp Arg Asp Arg Asp Arg Asp Arg Asp Arg Glu His  
                           275                          280                          285  
 Lys Arg Gly Glu Arg Gly Ser Glu Arg Gly Arg Asp Glu Ala Arg Gly  
                           290                          295                          300  
 Gly Gly Gly Gly Gln Asp Asn Gly Leu Glu Gly Leu Gly Asn Asp Ser  
 305  310                          315                          320  
 Arg Asp Met Tyr Met Glu Ser Glu Gly Gly Asp Gly Tyr Leu Ala Pro  
                           325                          330                          335  
 Glu Asn Gly Tyr Leu Met Glu Ala Ala Pro Glu  
                           340                          345

&lt;210&gt; 6375

&lt;211&gt; 410

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6375

Tyr Arg Ser Thr Leu Gln Tyr Arg Ser Gly Ile Pro Gly Arg Pro Thr  
   1                          5                          10                          15

Xaa Arg Leu Ala Ser Pro Phe Arg Pro Val Pro Met Glu Ala Leu Gly  
                           20                          25                          30

Lys Leu Lys Gln Phe Asp Ala Tyr Pro Lys Thr Leu Glu Asp Phe Arg  
                           35                          40                          45

Val Lys Thr Cys Gly Gly Ala Thr Val Thr Ile Val Ser Gly Leu Leu  
                           50                          55                          60

Met Leu Leu Leu Phe Leu Ser Glu Leu Gln Tyr Tyr Leu Thr Thr Glu  
                           65                          70                          75                          80

Val His Pro Glu Leu Tyr Val Asp Lys Ser Arg Gly Asp Lys Leu Lys

## 5618

	85		90		95
Ile Asn Ile Asp Val Leu Phe Pro His Met Pro Cys Ala Tyr Leu Ser	100		105		110
Ile Asp Ala Met Asp Val Ala Gly Glu Gln Gln Leu Asp Val Glu His	115		120		125
Asn Leu Phe Lys Gln Arg Leu Asp Lys Asp Gly Ile Pro Val Ser Ser	130		135		140
Glu Ala Glu Arg His Glu Leu Gly Lys Val Glu Val Thr Val Phe Asp	145		150		155
Pro Asp Ser Leu Asp Pro Asp Arg Cys Glu Ser Cys Tyr Gly Ala Glu	165		170		175
Ala Glu Asp Ile Lys Cys Cys Asn Thr Cys Glu Asp Val Arg Glu Ala	180		185		190
Tyr Arg Arg Arg Gly Trp Ala Phe Lys Asn Pro Asp Thr Ile Glu Gln	195		200		205
Cys Arg Arg Glu Gly Phe Ser Gln Lys Met Gln Glu Gln Lys Asn Glu	210		215		220
Gly Cys Gln Val Tyr Gly Phe Leu Glu Val Asn Lys Val Ala Gly Asn	225		230		235
Phe His Phe Ala Pro Gly Lys Ser Phe Gln Gln Ser His Val His Val	245		250		255
His Asp Leu Gln Ser Phe Gly Leu Asp Asn Ile Asn Met Thr His Tyr	260		265		270
Ile Gln His Leu Ser Phe Gly Glu Asp Tyr Pro Gly Ile Val Asn Pro	275		280		285
Leu Asp His Thr Asn Val Thr Ala Pro Gln Ala Ser Met Met Phe Gln	290		295		300
Tyr Phe Val Lys Val Val Pro Thr Val Tyr Met Lys Val Asp Gly Glu	305		310		315
Val Leu Arg Thr Asn Gln Phe Ser Val Thr Arg His Glu Lys Val Ala	325		330		335
Asn Gly Leu Leu Gly Asp Gln Gly Leu Pro Gly Val Phe Val Leu Tyr	340		345		350
Glu Leu Ser Pro Met Met Val Lys Leu Thr Glu Lys His Arg Ser Phe					

355					360					365					
Thr	His	Phe	Leu	Thr	Gly	Val	Cys	Ala	Ile	Ile	Gly	Gly	Met	Phe	Thr
370					375					380					
Val	Ala	Gly	Leu	Ile	Asp	Ser	Leu	Ile	Tyr	His	Ser	Ala	Arg	Ala	Ile
385					390					395					400
Gln	Lys	Lys	Ile	Asp	Leu	Gly	Lys	Thr	Thr						
405					410										

Gly Leu Ser Glu Glu Ser Thr Thr Phe Tyr Ser Ser Pro Gly Ser Thr  
50 55 60

## 5620

Glu	Thr	Thr	Ala	Phe	Ser	His	Ser	Asn	Thr	Met	Ser	Ile	His	Ser	Gln	65	70	75	80
Gln	Ser	Thr	Pro	Phe	Pro	Asp	Ser	Pro	Gly	Phe	Thr	His	Thr	Val	Leu	85	90	95	
Pro	Ala	Thr	Leu	Thr	Thr	Thr	Asp	Ile	Gly	Gln	Glu	Ser	Thr	Ala	Phe	100	105	110	
His	Ser	Ser	Ser	Asp	Ala	Thr	Gly	Thr	Thr	Pro	Leu	Pro	Ala	Arg	Ser	115	120	125	
Thr	Ala	Ser	Asp	Leu	Val	Gly	Glu	Pro	Thr	Thr	Phe	Tyr	Ile	Ser	Pro	130	135	140	
Ser	Pro	Thr	Tyr	Thr	Thr	Leu	Phe	Pro	Ala	Ser	Ser	Ser	Thr	Ser	Gly	145	150	155	160
Leu	Thr	Glu	Glu	Ser	Thr	Thr	Phe	His	Thr	Ser	Pro	Ser	Phe	Thr	Ser	165	170	175	
Thr	Ile	Val	Ser	Thr	Glu	Ser	Leu	Glu	Thr	Leu	Ala	Pro	Gly	Leu	Cys	180	185	190	
Gln	Glu	Gly	Gln	Ile	Trp	Asn	Gly	Lys	Gln	Cys	Val	Cys	Pro	Gln	Gly	195	200	205	
Tyr	Val	Gly	Tyr	Gln	Cys	Leu	Ser	Pro	Leu	Glu	Ser	Phe	Pro	Val	Glu	210	215	220	
Thr	Pro	Glu	Lys	Leu	Asn	Ala	Thr	Leu	Gly	Met	Thr	Val	Lys	Val	Thr	225	230	235	240
Tyr	Arg	Asn	Phe	Thr	Glu	Lys	Met	Asn	Asp	Ala	Ser	Ser	Gln	Glu	Tyr	245	250	255	
Gln	Asn	Phe	Ser	Thr	Leu	Phe	Lys	Asn	Arg	Met	Asp	Val	Val	Leu	Lys	260	265	270	
Gly	Asp	Asn	Leu	Pro	Gln	Tyr	Arg	Gly	Val	Asn	Ile	Arg	Arg	Leu	Leu	275	280	285	
Asn	Gly	Ser	Ile	Val	Val	Lys	Asn	Asp	Val	Ile	Leu	Glu	Ala	Asp	Tyr	290	295	300	
Thr	Leu	Glu	Tyr	Glu	Glu	Leu	Phe	Glu	Asn	Leu	Ala	Glu	Ile	Val	Lys	305	310	315	320
Ala	Lys	Ile	Met	Asn	Glu	Thr	Arg	Thr	Thr	Leu	Leu	Asp	Pro	Asp	Ser	325	330	335	



## 5621

Cys Arg Lys Ala Ile Leu Cys Tyr Ser Glu Glu Asp Thr Phe Val Asp  
                   340                  345                  350  
 Ser Ser Val Thr Pro Gly Phe Asp Phe Gln Glu Gln Cys Thr Gln Lys  
                   355                  360                  365  
 Ala Ala Glu Gly Tyr Thr Gln Phe Tyr Tyr Val Asp Val Leu Asp Gly  
                   370                  375                  380  
 Lys Leu Ala Cys Val Asn Lys Cys Thr Lys Gly Thr Lys Ser Gln Met  
 385                  390                  395                  400  
 Asn Cys Asn Leu Gly Thr Cys Gln Leu Gln Arg Ser Gly Pro Arg Cys  
                   405                  410                  415  
 Leu Cys Pro Asn Thr Asn Thr His Trp Tyr Trp Gly Glu Thr Cys Glu  
                   420                  425                  430  
 Phe Asn Ile Ala Lys Ser Leu Val Tyr Gly Ile Val Gly Ala Val Met  
                   435                  440                  445  
 Ala Val Leu Leu Leu Ala Leu Ile Ile Leu Ile Ile Leu Phe Ser Leu  
                   450                  455                  460  
 Ser Gln Arg Lys Arg His Arg Glu Gln Tyr Asp Val Pro Gln Glu Trp  
 465                  470                  475                  480  
 Arg Lys Glu Gly Thr Pro Gly Ile Phe Gln Lys Thr Ala Ile Trp Glu  
                   485                  490                  495  
 Asp Gln Asn Leu Arg Glu Ser Arg Phe Gly Leu Glu Asn Ala Tyr Asn  
                   500                  505                  510  
 Asn Phe Arg Pro Thr Leu Glu Thr Val Asp Ser Gly Thr Glu Leu His  
                   515                  520                  525  
 Ile Gln Arg Pro Glu Met Val Ala Ser Thr Val  
                   530                  535

&lt;210&gt; 6377

&lt;211&gt; 365

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6377

Gly Arg Val Gly Ser Pro Gly Gly Cys Pro Trp Val Leu Pro Ser Leu  
   1                  5                  10                  15

Pro Asp Thr Gln Thr Asp Leu Asp Arg Pro Pro Gly Arg Ser Arg Thr

## 5622

	20		25		30														
Gly	Arg	Pro	Asp	Ala	Ala	Met	Ala	Glu	Leu	Pro	Gly	Pro	Phe	Leu	Cys				
	35						40					45							
Gly	Ala	Leu	Leu	Gly	Phe	Leu	Cys	Leu	Ser	Gly	Leu	Ala	Val	Glu	Val				
	50					55					60								
Lys	Val	Pro	Thr	Glu	Pro	Leu	Ser	Thr	Pro	Leu	Gly	Lys	Thr	Ala	Glu				
	65				70					75					80				
Leu	Thr	Cys	Thr	Tyr	Ser	Thr	Ser	Val	Gly	Asp	Ser	Phe	Ala	Leu	Glu				
				85					90					95					
Trp	Ser	Phe	Val	Gln	Pro	Gly	Lys	Pro	Ile	Ser	Glu	Ser	His	Pro	Ile				
			100					105					110						
Leu	Tyr	Phe	Thr	Asn	Gly	His	Leu	Tyr	Pro	Thr	Gly	Ser	Lys	Ser	Lys				
	115						120					125							
Arg	Val	Ser	Leu	Leu	Gln	Asn	Pro	Pro	Thr	Val	Gly	Val	Ala	Thr	Leu				
	130					135					140								
Lys	Leu	Thr	Asp	Val	His	Pro	Ser	Asp	Thr	Gly	Thr	Tyr	Leu	Cys	Gln				
	145				150					155					160				
Val	Asn	Asn	Pro	Pro	Asp	Phe	Tyr	Thr	Asn	Gly	Leu	Gly	Leu	Ile	Asn				
				165					170					175					
Leu	Thr	Val	Leu	Val	Pro	Pro	Ser	Asn	Pro	Leu	Cys	Ser	Gln	Ser	Gly				
			180					185					190						
Gln	Thr	Ser	Val	Gly	Gly	Ser	Thr	Ala	Leu	Arg	Cys	Ser	Ser	Ser	Glu				
		195					200					205							
Gly	Ala	Pro	Lys	Pro	Val	Tyr	Asn	Trp	Val	Arg	Leu	Gly	Thr	Phe	Pro				
	210					215					220								
Thr	Pro	Ser	Pro	Gly	Ser	Met	Val	Gln	Asp	Glu	Val	Ser	Gly	Gln	Leu				
	225				230					235					240				
Ile	Leu	Thr	Asn	Leu	Ser	Leu	Thr	Ser	Ser	Gly	Thr	Tyr	Arg	Cys	Val				
			245						250					255					
Ala	Thr	Asn	Gln	Met	Gly	Ser	Ala	Ser	Cys	Glu	Leu	Thr	Leu	Ser	Val				
		260						265					270						
Thr	Glu	Pro	Ser	Gln	Gly	Arg	Val	Ala	Gly	Ala	Leu	Ile	Gly	Val	Leu				
	275						280					285							
Leu	Gly	Val	Leu	Leu	Leu	Ser	Val	Ala	Ala	Phe	Cys	Leu	Val	Arg	Phe				

## 5623

290                                      295                                      300  
 Gln Lys Glu Arg Gly Lys Lys Pro Lys Glu Thr Tyr Gly Gly Ser Asp  
 305                                      310                                      315                                      320  
 Leu Arg Glu Asp Ala Ile Ala Pro Gly Ile Ser Glu His Thr Cys Met  
                                     325                                      330                                      335  
 Arg Ala Asp Ser Ser Lys Gly Phe Leu Glu Arg Pro Ser Ser Ala Ser  
                                     340                                      345                                      350  
 Thr Val Thr Thr Thr Lys Ser Lys Leu Pro Met Val Val  
                                     355                                      360                                      365  
  
 <210> 6378  
 <211> 869  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 6378  
 Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Val Thr Xaa Ala Ser  
   1                                      5                                      10                                      15  
 Leu Tyr Leu Phe Glu Ala Thr Gly Lys Arg Phe Tyr Phe Lys Asn Val  
                                     20                                      25                                      30  
 Ala Ile Leu Ile Pro Glu Thr Trp Lys Thr Lys Ala Asp Tyr Val Arg  
                                     35                                      40                                      45  
 Pro Lys Leu Glu Thr Tyr Lys Asn Ala Asp Val Leu Val Ala Glu Ser  
                                     50                                      55                                      60  
 Thr Pro Pro Gly Asn Asp Glu Pro Tyr Thr Glu Gln Met Gly Asn Cys  
   65                                      70                                      75                                      80  
 Gly Glu Lys Gly Glu Arg Ile His Leu Thr Pro Asp Phe Ile Ala Gly  
                                     85                                      90                                      95  
 Lys Lys Leu Ala Glu Tyr Gly Pro Gln Gly Arg Ala Phe Val His Glu  
                                     100                                      105                                      110  
 Trp Ala His Leu Arg Trp Gly Val Phe Asp Glu Tyr Asn Asn Asp Glu  
                                     115                                      120                                      125

## 5624

Lys Phe Tyr Leu Ser Asn Gly Arg Ile Gln Ala Val Arg Cys Ser Ala  
 130 135 140  
 Gly Ile Thr Gly Thr Asn Val Val Lys Lys Cys Gln Gly Gly Ser Cys  
 145 150 155 160  
 Tyr Thr Lys Arg Cys Thr Phe Asn Lys Val Thr Gly Leu Tyr Glu Lys  
 165 170 175  
 Gly Cys Glu Phe Val Leu Gln Ser Arg Gln Thr Glu Lys Ala Ser Ile  
 180 185 190  
 Met Phe Ala Gln His Val Asp Ser Ile Val Glu Phe Cys Thr Glu Gln  
 195 200 205  
 Asn His Asn Lys Glu Ala Pro Asn Lys Gln Asn Gln Lys Cys Asn Leu  
 210 215 220  
 Arg Ser Thr Trp Glu Val Ile Arg Asp Ser Glu Asp Phe Lys Lys Thr  
 225 230 235 240  
 Thr Pro Met Thr Thr Gln Pro Pro Asn Pro Thr Phe Ser Leu Leu Gln  
 245 250 255  
 Ile Gly Gln Arg Ile Val Cys Leu Val Leu Asp Lys Ser Gly Ser Met  
 260 265 270  
 Ala Thr Gly Asn Arg Leu Asn Arg Leu Asn Gln Ala Gly Gln Leu Phe  
 275 280 285  
 Leu Leu Gln Thr Val Glu Leu Gly Ser Trp Val Gly Met Val Thr Phe  
 290 295 300  
 Asp Ser Ala Ala His Val Gln Ser Glu Leu Ile Gln Ile Asn Ser Gly  
 305 310 315 320  
 Ser Asp Arg Asp Thr Leu Ala Lys Arg Leu Pro Ala Ala Ala Ser Gly  
 325 330 335  
 Gly Thr Ser Ile Cys Ser Gly Leu Arg Ser Ala Phe Thr Val Ile Arg  
 340 345 350  
 Lys Lys Tyr Pro Thr Asp Gly Ser Glu Ile Val Leu Leu Thr Asp Gly  
 355 360 365  
 Glu Asp Asn Thr Ile Ser Gly Cys Phe Asn Glu Val Lys Gln Ser Gly  
 370 375 380  
 Ala Ile Ile His Thr Val Ala Leu Gly Pro Ser Ala Ala Gln Glu Leu  
 385 390 395 400

## 5625

Glu Glu Leu Ser Lys Met Thr Gly Gly Leu Gln Thr Tyr Ala Ser Asp  
 405 410 415  
 Gln Val Gln Asn Asn Gly Leu Ile Asp Ala Phe Gly Ala Leu Ser Ser  
 420 425 430  
 Gly Asn Gly Ala Val Ser Gln Arg Ser Ile Gln Leu Glu Ser Lys Gly  
 435 440 445  
 Leu Thr Leu Gln Asn Ser Gln Trp Met Asn Gly Thr Val Ile Val Asp  
 450 455 460  
 Ser Thr Val Gly Lys Asp Thr Leu Phe Leu Ile Thr Trp Thr Thr Gln  
 465 470 475 480  
 Pro Pro Gln Ile Leu Leu Trp Asp Pro Ser Gly Gln Lys Gln Gly Gly  
 485 490 495  
 Phe Val Val Asp Lys Asn Thr Lys Met Ala Tyr Leu Gln Ile Pro Gly  
 500 505 510  
 Ile Ala Lys Val Gly Thr Trp Lys Tyr Ser Leu Gln Ala Ser Ser Gln  
 515 520 525  
 Thr Leu Thr Leu Thr Val Thr Ser Arg Ala Ser Asn Ala Thr Leu Pro  
 530 535 540  
 Pro Ile Thr Val Thr Ser Lys Thr Asn Lys Asp Thr Ser Lys Phe Pro  
 545 550 555 560  
 Ser Pro Leu Val Val Tyr Ala Asn Ile Arg Gln Gly Ala Ser Pro Ile  
 565 570 575  
 Leu Arg Ala Ser Val Thr Ala Leu Ile Glu Ser Val Asn Gly Lys Thr  
 580 585 590  
 Val Thr Leu Glu Leu Leu Asp Asn Gly Ala Gly Ala Asp Ala Thr Lys  
 595 600 605  
 Asp Asp Gly Val Tyr Ser Arg Tyr Phe Thr Thr Tyr Asp Thr Asn Gly  
 610 615 620  
 Arg Tyr Ser Val Lys Val Arg Ala Leu Gly Gly Val Asn Ala Ala Arg  
 625 630 635 640  
 Arg Arg Val Ile Pro Gln Gln Ser Gly Ala Leu Tyr Ile Pro Gly Trp  
 645 650 655  
 Ile Glu Asn Asp Glu Ile Gln Trp Asn Pro Pro Arg Pro Glu Ile Asn  
 660 665 670

## 5626

Lys Asp Asp Val Gln His Lys Gln Val Cys Phe Ser Arg Thr Ser Ser  
 675 680 685

Gly Gly Ser Phe Val Ala Ser Asp Val Pro Asn Ala Pro Ile Pro Asp  
 690 695 700

Leu Phe Pro Pro Gly Gln Ile Thr Asp Leu Lys Ala Glu Ile His Gly  
 705 710 715 720

Gly Ser Leu Ile Asn Leu Thr Trp Thr Ala Pro Gly Asp Asp Tyr Asp  
 725 730 735

His Gly Thr Ala His Lys Tyr Ile Ile Arg Ile Ser Thr Ser Ile Leu  
 740 745 750

Asp Leu Arg Asp Lys Phe Asn Glu Ser Leu Gln Val Asn Thr Thr Ala  
 755 760 765

Leu Ile Pro Lys Glu Ala Asn Ser Glu Glu Val Phe Leu Phe Lys Pro  
 770 775 780

Glu Asn Ile Thr Phe Glu Asn Gly Thr Asp Leu Phe Ile Ala Ile Gln  
 785 790 795 800

Ala Val Asp Lys Val Asp Leu Lys Ser Glu Ile Ser Asn Ile Ala Arg  
 805 810 815

Val Ser Leu Phe Ile Pro Pro Gln Thr Pro Pro Glu Thr Pro Ser Pro  
 820 825 830

Asp Glu Thr Ser Ala Pro Cys Pro Asn Ile His Ile Asn Ser Thr Ile  
 835 840 845

Pro Gly Ile His Ile Leu Lys Ile Met Trp Lys Trp Ile Gly Glu Leu  
 850 855 860

Gln Leu Ser Ile Ala  
 865

<210> 6379

<211> 275

<212> PRT

<213> Homo sapiens

<400> 6379

Pro Thr Arg Pro His Ser Ser Gly Tyr Leu Pro Thr Met Ala Leu Val  
 1 5 10 15

Leu Ile Leu Gln Leu Leu Thr Leu Trp Pro Leu Cys His Thr Asp Ile

5627

20					25					30					
Thr	Pro	Ser	Val	Pro	Pro	Ala	Ser	Tyr	His	Pro	Lys	Pro	Trp	Leu	Gly
		35					40					45			
Ala	Gln	Pro	Ala	Thr	Val	Val	Thr	Pro	Gly	Val	Asn	Val	Thr	Leu	Arg
	50					55					60				
Cys	Arg	Ala	Pro	Gln	Pro	Ala	Trp	Arg	Phe	Gly	Leu	Phe	Lys	Pro	Gly
	65					70					75				80
Glu	Ile	Ala	Pro	Leu	Leu	Phe	Arg	Asp	Val	Ser	Ser	Glu	Leu	Ala	Glu
				85					90					95	
Phe	Phe	Leu	Glu	Glu	Val	Thr	Pro	Ala	Gln	Gly	Gly	Ser	Tyr	Arg	Cys
			100					105					110		
Cys	Tyr	Arg	Arg	Pro	Asp	Trp	Gly	Pro	Gly	Val	Trp	Ser	Gln	Pro	Ser
		115					120					125			
Asp	Val	Leu	Glu	Leu	Leu	Val	Thr	Glu	Glu	Leu	Pro	Arg	Pro	Ser	Leu
	130					135					140				
Val	Ala	Leu	Pro	Gly	Pro	Val	Val	Gly	Pro	Gly	Ala	Asn	Val	Ser	Leu
	145					150					155				160
Arg	Cys	Ala	Gly	Arg	Leu	Arg	Asn	Met	Ser	Phe	Val	Leu	Tyr	Arg	Glu
				165					170					175	
Gly	Val	Ala	Ala	Pro	Leu	Gln	Tyr	Arg	His	Ser	Ala	Gln	Pro	Trp	Ala
			180					185					190		
Asp	Phe	Thr	Leu	Leu	Gly	Ala	Arg	Ala	Pro	Gly	Thr	Tyr	Ser	Cys	Tyr
		195					200					205			
Tyr	His	Thr	Pro	Ser	Ala	Pro	Tyr	Val	Leu	Ser	Gln	Arg	Ser	Glu	Val
	210					215					220				
Leu	Val	Ile	Ser	Trp	Glu	Asp	Ser	Gly	Ser	Ser	Asp	Tyr	Thr	Arg	Gly
	225					230					235				240
Asn	Leu	Val	Arg	Leu	Gly	Leu	Ala	Gly	Leu	Val	Leu	Ile	Ser	Leu	Gly
				245					250					255	
Ala	Leu	Val	Thr	Phe	Asp	Trp	Arg	Ser	Gln	Asn	Arg	Ala	Pro	Ala	Gly
			260					265					270		
Ile	Arg	Pro													
		275													

## 5628

&lt;210&gt; 6380

&lt;211&gt; 708

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6380

Pro	Arg	Arg	Leu	Leu	Ser	Thr	Ser	Arg	Arg	Cys	Ser	Arg	Arg	Arg	Arg
1				5					10					15	

Leu	Ala	Val	Arg	Cys	Gln	Ala	Ala	Pro	Ser	Pro	Gly	Ala	Arg	Arg	Leu
			20					25					30		

Ala	Cys	Arg	Gly	Ala	Pro	Gly	Arg	Thr	Ala	Arg	Pro	Ala	Pro	Pro	Pro
		35					40					45			

Gly	Ser	Phe	Gly	Xaa	Ala	Met	Gly	Cys	Cys	Ser	Ser	Ala	Ser	Ser	Ala
	50					55					60				

Ala	Gln	Ser	Ser	Lys	Arg	Glu	Trp	Lys	Pro	Leu	Glu	Asp	Arg	Ser	Cys
65					70					75					80

Thr	Asp	Ile	Pro	Trp	Leu	Leu	Leu	Phe	Ile	Leu	Phe	Cys	Ile	Gly	Met
				85					90					95	

Gly	Phe	Ile	Cys	Gly	Phe	Ser	Ile	Ala	Thr	Gly	Ala	Ala	Ala	Arg	Leu
			100					105					110		

Val	Ser	Gly	Tyr	Asp	Ser	Tyr	Gly	Asn	Ile	Cys	Gly	Gln	Lys	Asn	Thr
		115					120					125			

Lys	Leu	Glu	Ala	Ile	Pro	Asn	Ser	Gly	Met	Asp	His	Thr	Gln	Arg	Lys
	130					135					140				

Tyr	Val	Phe	Phe	Leu	Asp	Pro	Cys	Asn	Leu	Asp	Leu	Ile	Asn	Arg	Lys
145					150					155					160

Ile	Lys	Ser	Val	Ala	Leu	Cys	Val	Ala	Ala	Cys	Pro	Arg	Gln	Glu	Leu
				165					170					175	

Lys	Thr	Leu	Ser	Asp	Val	Gln	Lys	Phe	Ala	Glu	Ile	Asn	Gly	Ser	Ala
			180					185					190		

Leu	Cys	Ser	Tyr	Asn	Leu	Lys	Pro	Ser	Glu	Tyr	Thr	Thr	Ser	Pro	Lys
		195					200					205			



## 5629

Ser Ser Val Leu Cys Pro Lys Leu Pro Val Pro Ala Ser Ala Pro Ile  
 210 215 220  
 Pro Phe Phe His Arg Cys Ala Pro Val Asn Ile Ser Cys Tyr Ala Lys  
 225 230 235 240  
 Phe Ala Glu Ala Leu Ile Thr Phe Val Ser Asp Asn Ser Val Leu His  
 245 250 255  
 Arg Leu Ile Ser Gly Val Met Thr Ser Lys Glu Ile Ile Leu Gly Leu  
 260 265 270  
 Cys Leu Leu Ser Leu Val Leu Ser Met Ile Leu Met Val Ile Ile Arg  
 275 280 285  
 Tyr Ile Ser Arg Val Leu Val Trp Ile Leu Thr Ile Leu Val Ile Leu  
 290 295 300  
 Gly Ser Leu Gly Gly Thr Gly Val Leu Trp Trp Leu Tyr Ala Lys Gln  
 305 310 315 320  
 Arg Arg Ser Pro Lys Glu Thr Val Thr Pro Glu Gln Leu Gln Ile Ala  
 325 330 335  
 Glu Asp Asn Leu Arg Ala Leu Leu Ile Tyr Ala Ile Ser Ala Thr Val  
 340 345 350  
 Phe Thr Val Ile Leu Phe Leu Ile Met Leu Val Met Arg Lys Arg Val  
 355 360 365  
 Ala Leu Thr Ile Ala Leu Phe His Val Ala Gly Lys Val Phe Ile His  
 370 375 380  
 Leu Pro Leu Leu Val Phe Gln Pro Phe Trp Thr Phe Phe Ala Leu Val  
 385 390 395 400  
 Leu Phe Trp Val Tyr Trp Ile Met Thr Leu Leu Phe Leu Gly Thr Thr  
 405 410 415  
 Gly Ser Pro Val Gln Asn Glu Gln Gly Phe Val Glu Phe Lys Ile Ser  
 420 425 430  
 Gly Pro Leu Gln Tyr Met Trp Trp Tyr His Val Val Gly Leu Ile Trp  
 435 440 445  
 Ile Ser Glu Phe Ile Leu Ala Cys Gln Gln Met Thr Val Ala Gly Ala  
 450 455 460  
 Val Val Thr Tyr Tyr Phe Thr Arg Asp Lys Arg Asn Leu Pro Phe Thr  
 465 470 475 480

## 5630

Pro Ile Leu Ala Ser Val Asn Arg Leu Ile Arg Tyr His Leu Gly Thr  
                             485                            490                            495

Val Ala Lys Gly Ser Phe Ile Ile Thr Leu Val Lys Ile Pro Arg Met  
                             500                            505                            510

Ile Leu Met Tyr Ile His Ser Gln Leu Lys Gly Lys Glu Asn Ala Cys  
                             515                            520                            525

Ala Arg Cys Val Leu Lys Ser Cys Ile Cys Cys Leu Trp Cys Leu Glu  
                             530                            535                            540

Lys Cys Leu Asn Tyr Leu Asn Gln Asn Ala Tyr Thr Ala Thr Ala Ile  
                             545                            550                            555                            560

Asn Ser Thr Asn Phe Cys Thr Ser Ala Lys Asp Ala Phe Val Ile Leu  
                             565                            570                            575

Val Glu Asn Ala Leu Arg Val Ala Thr Ile Asn Thr Val Gly Asp Phe  
                             580                            585                            590

Met Leu Phe Leu Gly Lys Val Leu Ile Val Cys Ser Thr Gly Leu Ala  
                             595                            600                            605

Gly Ile Met Leu Leu Asn Tyr Gln Gln Asp Tyr Thr Val Trp Val Leu  
                             610                            615                            620

Pro Leu Ile Ile Val Cys Leu Phe Ala Phe Leu Val Ala His Cys Phe  
                             625                            630                            635                            640

Leu Ser Ile Tyr Glu Met Val Val Asp Val Leu Phe Leu Cys Phe Ala  
                             645                            650                            655

Ile Asp Thr Lys Tyr Asn Asp Gly Ser Pro Gly Arg Glu Phe Tyr Met  
                             660                            665                            670

Asp Lys Val Leu Met Glu Phe Val Glu Asn Ser Arg Lys Ala Met Lys  
                             675                            680                            685

Glu Ala Gly Lys Gly Gly Val Ala Asp Ser Arg Glu Leu Lys Pro Met  
                             690                            695                            700

Leu Lys Lys Arg  
                             705

<210> 6381

<211> 625

<212> PRT

<213> Homo sapiens

## 5631

<220>  
 <221> SITE  
 <222> (105)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (222)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (231)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (278)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (279)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (440)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6381  
 Ala Val Arg Leu Pro Ala Ala Tyr Ile Lys Ala Pro Gly His Ala Glu  
 1 5 10 15  
 Pro Ser Ser Arg Thr Arg Pro Thr Thr Met Arg Ser Cys Leu Trp Arg  
 20 25 30  
 Cys Arg His Leu Ser Gln Gly Val Gln Trp Ser Leu Leu Leu Ala Val  
 35 40 45  
 Leu Val Phe Phe Leu Phe Ala Leu Pro Ser Phe Ile Lys Glu Pro Gln  
 50 55 60  
 Thr Lys Pro Ser Arg His Gln Arg Thr Glu Asn Ile Lys Glu Arg Ser  
 65 70 75 80  
 Leu Gln Ser Leu Ala Lys Pro Lys Ser Gln Ala Pro Thr Arg Ala Arg  
 85 90 95  
 Arg Thr Thr Ile Tyr Ala Glu Pro Xaa Pro Glu Asn Asn Ala Leu Asn

## 5632

100	105	110
Thr Gln Thr Gln Pro Lys Ala His Thr Thr Gly Asp Arg Gly Lys Glu		
115	120	125
Ala Asn Gln Ala Pro Pro Glu Glu Gln Asp Lys Val Pro His Thr Ala		
130	135	140
Gln Arg Ala Ala Trp Lys Ser Pro Glu Lys Glu Lys Thr Met Val Asn		
145	150	155
Thr Leu Ser Pro Arg Gly Gln Asp Ala Gly Met Ala Ser Gly Arg Thr		
	165	170
Glu Ala Gln Ser Trp Lys Ser Gln Asp Thr Lys Thr Thr Gln Gly Asn		
	180	185
Gly Gly Gln Thr Arg Lys Leu Thr Ala Ser Arg Thr Val Ser Glu Lys		
	195	200
His Gln Gly Lys Ala Ala Thr Thr Ala Lys Thr Leu Ile Xaa Lys Ser		
	210	215
Gln His Arg Met Leu Ala Xaa Thr Gly Ala Val Ser Thr Arg Thr Arg		
	225	230
Gln Lys Gly Val Thr Thr Ala Val Ile Pro Pro Lys Glu Lys Lys Pro		
	245	250
Gln Ala Thr Pro Pro Pro Ala Pro Phe Gln Ser Pro Thr Thr Gln Arg		
	260	265
Asn Gln Arg Leu Lys Xaa Xaa Asn Phe Lys Ser Glu Pro Arg Trp Asp		
	275	280
Phe Glu Glu Lys Tyr Ser Phe Glu Ile Gly Gly Leu Gln Thr Thr Cys		
	290	300
Pro Asp Ser Val Lys Ile Lys Ala Ser Lys Ser Leu Trp Leu Gln Lys		
	305	310
Leu Phe Leu Pro Asn Leu Thr Leu Phe Leu Asp Ser Arg His Phe Asn		
	325	330
Gln Ser Glu Trp Asp Arg Leu Glu His Phe Ala Pro Pro Phe Gly Phe		
	340	345
Met Glu Leu Asn Tyr Ser Leu Val Gln Lys Val Val Thr Arg Phe Pro		
	355	360
Pro Val Pro Gln Gln Gln Leu Leu Leu Ala Ser Leu Pro Ala Gly Ser		

## 5633

370		375		380	
Leu Arg Cys Ile Thr Cys Ala Val Val Gly Asn Gly Gly Ile Leu Asn					
385		390		395	400
Asn Ser His Met Gly Gln Glu Ile Asp Ser His Asp Tyr Val Phe Arg					
	405		410		415
Leu Ser Gly Ala Leu Ile Lys Gly Tyr Glu Gln Asp Val Gly Thr Arg					
	420		425		430
Thr Ser Phe Tyr Gly Phe Thr Xaa Phe Ser Leu Thr Gln Ser Leu Leu					
	435		440		445
Ile Leu Gly Asn Arg Gly Phe Lys Asn Val Pro Leu Gly Lys Asp Val					
	450		455		460
Arg Tyr Leu His Phe Leu Glu Gly Thr Arg Asp Tyr Glu Trp Leu Glu					
465		470		475	480
Ala Leu Leu Met Asn Gln Thr Val Met Ser Lys Asn Leu Phe Trp Phe					
	485		490		495
Arg His Arg Pro Gln Glu Ala Phe Arg Glu Ala Leu His Met Asp Arg					
	500		505		510
Tyr Leu Leu Leu His Pro Asp Phe Leu Arg Tyr Met Lys Asn Arg Phe					
	515		520		525
Leu Arg Ser Lys Thr Leu Asp Gly Ala His Trp Arg Ile Tyr Arg Pro					
	530		535		540
Thr Thr Gly Ala Leu Leu Leu Leu Thr Ala Leu Gln Leu Cys Asp Gln					
545		550		555	560
Val Ser Ala Tyr Gly Phe Ile Thr Glu Gly His Glu Arg Phe Ser Asp					
	565		570		575
His Tyr Tyr Asp Thr Ser Trp Lys Arg Leu Ile Phe Tyr Ile Asn His					
	580		585		590
Asp Phe Lys Leu Glu Arg Glu Val Trp Lys Arg Leu His Asp Glu Gly					
	595		600		605
Ile Ile Arg Leu Tyr Gln Arg Pro Gly Pro Gly Thr Ala Lys Ala Lys					
	610		615		620
Asn					
625					

## 5634

&lt;210&gt; 6382

&lt;211&gt; 299

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6382

Gln Met Glu Lys Lys Glu Cys Pro Glu Lys Ser Ser Ser Ser Glu Glu  
 1 5 10 15  
 Glu Leu Pro Arg Arg Val Tyr Arg Glu Leu Pro Cys Val Ser Glu Thr  
 20 25 30  
 Leu Cys Asp Ile Ser His Phe Phe Gln Glu Asp Asp Glu Thr Glu Ala  
 35 40 45  
 Glu Pro Leu Leu Phe Arg Ala Val Pro Glu Cys Gln Leu Ser Gly Gly  
 50 55 60  
 Asp Ile Pro Ser Val Ser Glu Glu Gln Glu Ser Ser Glu Gly Gln Asp  
 65 70 75 80  
 Ser Gly Asp Ile Cys Ser Glu Glu Asn Gln Ile Val Ser Ser Tyr Ala  
 85 90 95  
 Ser Lys Val Cys Phe Glu Ile Glu Glu Asp Tyr Lys Asn Arg Gln Phe  
 100 105 110  
 Leu Gly Pro Glu Gly Asn Val Asp Val Glu Leu Ile Asp Lys Ser Thr  
 115 120 125  
 Asn Arg Tyr Ser Val Trp Phe Pro Thr Ala Gly Trp Tyr Leu Trp Ser  
 130 135 140  
 Ala Thr Gly Leu Gly Phe Leu Val Arg Asp Glu Val Thr Val Thr Ile  
 145 150 155 160  
 Ala Phe Gly Ser Trp Ser Gln His Leu Ala Leu Asp Leu Gln His His  
 165 170 175  
 Glu Gln Trp Leu Val Gly Gly Pro Leu Phe Asp Val Thr Ala Glu Pro  
 180 185 190  
 Glu Glu Ala Val Ala Glu Ile His Leu Pro His Phe Ile Ser Leu Gln  
 195 200 205  
 Ala Gly Glu Val Asp Val Ser Trp Phe Leu Val Ala His Phe Lys Asn  
 210 215 220  
 Glu Gly Met Val Leu Glu His Pro Ala Arg Val Glu Pro Phe Tyr Ala  
 225 230 235 240

## 5635

Val Leu Glu Ser Pro Ser Phe Ser Leu Met Gly Ile Leu Leu Arg Ile  
                             245                            250                            255

Ala Ser Gly Thr Arg Leu Ser Ile Pro Ile Thr Ser Asn Thr Leu Ile  
                             260                            265                            270

Tyr Tyr His Pro His Pro Glu Asp Ile Lys Phe His Leu Tyr Leu Val  
                             275                            280                            285

Pro Ser Asp Ala Leu Leu Thr Lys Thr Leu Phe  
                             290                            295

<210> 6383

<211> 273

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (210)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6383

Glu Thr Arg Val Lys Thr Ser Leu Glu Leu Leu Arg Thr Gln Leu Glu  
   1                            5                            10                            15

Pro Thr Gly Thr Val Gly Asn Thr Ile Met Thr Ser Gln Pro Val Pro  
                             20                            25                            30

Asn Glu Thr Ile Ile Val Leu Pro Ser Asn Val Ile Asn Phe Ser Gln  
                             35                            40                            45

Ala Glu Lys Pro Glu Pro Thr Asn Gln Gly Gln Asp Ser Leu Lys Lys  
                             50                            55                            60

His Leu His Ala Glu Ile Lys Val Ile Gly Thr Ile Gln Ile Leu Cys  
   65                            70                            75                            80

Gly Met Met Val Leu Ser Leu Gly Ile Ile Leu Ala Ser Ala Ser Phe  
                             85                            90                            95

Ser Pro Asn Phe Thr Gln Val Thr Ser Thr Leu Leu Asn Ser Ala Tyr  
                             100                            105                            110

Pro Phe Ile Gly Pro Phe Phe Phe Ile Ile Ser Gly Ser Leu Ser Ile  
                             115                            120                            125

Ala Thr Glu Lys Arg Leu Thr Lys Leu Leu Val His Ser Ser Leu Val

## 5636

130                      135                      140  
 Gly Ser Ile Leu Ser Ala Leu Ser Ala Leu Val Gly Phe Ile Ile Leu  
 145                      150                      155                      160  
 Ser Val Lys Gln Ala Thr Leu Asn Pro Ala Ser Leu Gln Cys Glu Leu  
                     165                      170                      175  
 Asp Lys Asn Asn Ile Pro Thr Arg Ser Tyr Val Ser Tyr Phe Tyr His  
                     180                      185                      190  
 Asp Ser Leu Tyr Thr Thr Asp Cys Tyr Thr Ala Lys Ala Ser Leu Ala  
                     195                      200                      205  
 Gly Xaa Leu Ser Leu Met Leu Ile Cys Thr Leu Leu Glu Phe Cys Leu  
                     210                      215                      220  
 Ala Val Leu Thr Ala Val Leu Arg Trp Lys Gln Ala Tyr Ser Asp Phe  
 225                      230                      235                      240  
 Pro Gly Ser Val Leu Phe Leu Pro His Ser Tyr Ile Gly Asn Ser Gly  
                     245                      250                      255  
 Met Ser Ser Lys Met Thr His Asp Cys Gly Tyr Glu Glu Leu Leu Thr  
                     260                      265                      270  
 Ser

<210> 6384  
 <211> 166  
 <212> PRT  
 <213> Homo sapiens

<400> 6384  
 Leu His Pro Gln Gly Arg Arg Lys Met Ala Ser Arg Ser Met Arg Leu  
   1                    5                    10                    15  
 Leu Leu Leu Leu Ser Cys Leu Ala Lys Thr Gly Val Leu Gly Asp Ile  
                     20                    25                    30  
 Ile Met Arg Pro Ser Cys Ala Pro Gly Trp Phe Tyr His Lys Ser Asn  
                     35                    40                    45  
 Cys Tyr Gly Tyr Phe Arg Lys Leu Arg Asn Trp Ser Asp Ala Glu Leu  
                     50                    55                    60  
 Glu Cys Gln Ser Tyr Gly Asn Gly Ala His Leu Ala Ser Ile Leu Ser  
   65                    70                    75                    80



5637

Leu	Lys	Glu	Ala	Ser	Thr	Ile	Ala	Glu	Tyr	Ile	Ser	Gly	Tyr	Gln	Arg	
				85					90					95		
Ser	Gln	Pro	Ile	Trp	Ile	Gly	Leu	His	Asp	Pro	Gln	Lys	Arg	Gln	Gln	
				100					105					110		
Trp	Gln	Trp	Ile	Asp	Gly	Ala	Met	Tyr	Leu	Tyr	Arg	Ser	Trp	Ser	Gly	
				115					120					125		
Lys	Ser	Met	Gly	Gly	Asn	Lys	His	Cys	Ala	Glu	Met	Ser	Ser	Asn	Asn	
				130					135					140		
Asn	Phe	Leu	Thr	Trp	Ser	Ser	Asn	Glu	Cys	Asn	Lys	Arg	Gln	His	Phe	
145				150				155				160				
Leu	Cys	Lys	Tyr	Arg	Pro											
						165										

<210> 6385

<211> 202

<212> PRT

<213> Homo sapiens

<220>

&lt;221&gt; SITE

 $\langle 222 \rangle$  (1)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$ 

&lt;221&gt; SITE

 $\langle 222 \rangle$  (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6385

Xaa	Pro	Gly	Arg	Thr	Ser	Xaa	Thr	Pro	His	Pro	Ser	Arg	Arg	Leu	Thr
1				5					10					15	
Gln	Gly	Arg	Trp	Val	Arg	Lys	Ser	Arg	Val	Ala	Met	Glu	Lys	Ile	Pro
			20					25					30		
Val	Ser	Ala	Phe	Leu	Leu	Leu	Val	Ala	Leu	Ser	Tyr	Thr	Leu	Ala	Arg
		35					40					45			
Asp	Thr	Thr	Val	Lys	Pro	Gly	Ala	Lys	Lys	Asp	Thr	Lys	Asp	Ser	Arg
	50					55					60				
Pro	Lys	Leu	Pro	Gln	Thr	Leu	Ser	Arg	Gly	Trp	Gly	Asp	Gln	Leu	Ile
65					70					75					80

Trp	Thr	Gln	Thr	Tyr	Glu	Glu	Ala	Leu	Tyr	Lys	Ser	Lys	Thr	Ser	Asn
				85					90					95	
Lys	Pro	Leu	Met	Ile	Ile	His	His	Leu	Asp	Glu	Cys	Pro	His	Ser	Gln
			100					105					110		
Ala	Leu	Lys	Lys	Val	Phe	Ala	Glu	Asn	Lys	Glu	Ile	Gln	Lys	Leu	Ala
		115					120					125			
Glu	Gln	Phe	Val	Leu	Leu	Asn	Leu	Val	Tyr	Glu	Thr	Thr	Asp	Lys	His
	130					135					140				
Leu	Ser	Pro	Asp	Gly	Gln	Tyr	Val	Pro	Arg	Ile	Met	Phe	Val	Asp	Pro
145					150					155					160
Ser	Leu	Thr	Val	Arg	Ala	Asp	Ile	Thr	Gly	Arg	Tyr	Ser	Asn	Arg	Leu
			165						170					175	
Tyr	Ala	Tyr	Glu	Pro	Ala	Asp	Thr	Ala	Leu	Leu	Leu	Asp	Asn	Met	Lys
			180					185					190		
Lys	Ala	Leu	Lys	Leu	Leu	Lys	Thr	Glu	Leu						
		195					200								

<213> Homo sapiens

Pro Leu Gly Lys Lys Leu Asn Val Thr Thr Ala Trp Lys Ala Gln Asn  
85 90 95

## 5639

Pro Val Leu Arg Glu Val Val Asp Ile Leu Thr Glu Gln Leu Arg Asp  
 100 105 110

Ile Gln Leu Glu Asn Tyr Thr Pro Lys Glu Pro Leu Thr Leu Gln Ala  
 115 120 125

Arg Met Ser Cys Glu Gln Lys Ala Glu Gly His Ser Ser Gly Ser Trp  
 130 135 140

Gln Phe Ser Phe Asp Gly Gln Ile Phe Leu Leu Phe Asp Ser Glu Lys  
 145 150 155 160

Arg Met Trp Thr Thr Val His Pro Gly Ala Arg Lys Met Lys Glu Lys  
 165 170 175

Trp Glu Asn Asp Lys Val Val Ala Met Ser Phe His Tyr Phe Ser Met  
 180 185 190

Gly Asp Cys Ile Gly Trp Leu Glu Asp Phe Leu Met Gly Met Asp Ser  
 195 200 205

Thr Leu Glu Pro Ser Ala Gly Ala Pro Leu Ala Met Ser Ser Gly Thr  
 210 215 220

Thr Gln Leu Arg Ala Thr Ala Thr Thr Leu Ile Leu Cys Cys Leu Leu  
 225 230 235 240

Ile Ile Leu Pro Cys Phe Ile Leu Pro Gly Ile  
 245 250

<210> 6387

<211> 241

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (205)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6387

Arg Asp Pro Pro Arg Pro Val Gln Ser Gly Leu Gly Ala Ala Gly Thr  
 1 5 10 15

Leu Ser Trp Leu Pro Pro Pro Glu Gln Pro Val Leu Val Pro Arg Leu  
 20 25 30

Pro Ala Pro Arg Pro Val Met Thr Leu Arg Pro Ser Leu Leu Pro Leu  
 35 40 45

## 5640

His Leu Leu Leu Leu Leu Leu Leu Ser Ala Ala Val Cys Arg Ala Glu  
 50 55 60  
 Ala Gly Leu Glu Thr Glu Ser Pro Val Arg Thr Leu Gln Val Glu Thr  
 65 70 75 80  
 Leu Val Glu Pro Pro Glu Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp  
 85 90 95  
 Thr Leu His Ile His Tyr Thr Gly Ser Leu Val Asp Gly Arg Ile Ile  
 100 105 110  
 Asp Thr Ser Leu Thr Arg Asp Pro Leu Val Ile Glu Leu Gly Gln Lys  
 115 120 125  
 Gln Val Ile Pro Gly Leu Glu Gln Ser Leu Leu Asp Met Cys Val Gly  
 130 135 140  
 Glu Lys Arg Arg Ala Ile Ile Pro Ser His Leu Ala Tyr Gly Lys Arg  
 145 150 155 160  
 Gly Phe Pro Pro Ser Val Pro Ala Asp Ala Val Val Gln Tyr Asp Val  
 165 170 175  
 Glu Leu Ile Ala Leu Ile Arg Ala Asn Tyr Trp Leu Lys Leu Val Lys  
 180 185 190  
 Gly Ile Leu Pro Leu Val Gly Met Ala Met Val Pro Xaa Ser Trp Ala  
 195 200 205  
 Ser Leu Gly Ile Thr Tyr Thr Glu Arg Pro Ile Asp Pro Lys Ser Pro  
 210 215 220  
 Lys Arg Ser Ser Arg Lys Arg Asn Glu Thr Arg Ala Lys Arg Asn Asn  
 225 230 235 240  
 Lys

&lt;210&gt; 6388

&lt;211&gt; 223

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6388

Gly Phe Leu Leu His Pro Val Tyr Leu Leu Arg Val Ser Phe Pro Leu  
 1 5 10 15

## 5641

Pro Thr Pro Ala Gly Gln Ser Trp Ala Pro Ala Pro Glu His Ser Arg  
                   20                  25                  30  
 Ala Ala Arg Val Ser Arg Leu Glu Thr His Asp Thr Lys Glu Ile Gln  
                   35                  40                  45  
 Val Lys Lys Tyr Lys Cys Gly Leu Ile Lys Pro Cys Pro Ala Asn Tyr  
           50                  55                  60  
 Phe Ala Phe Lys Ile Cys Ser Gly Ala Ala Asn Val Val Gly Pro Thr  
   65                  70                  75                  80  
 Met Cys Phe Glu Asp Arg Met Ile Met Ser Pro Val Lys Asn Asn Val  
                   85                  90                  95  
 Gly Arg Gly Leu Asn Ile Ala Leu Val Asn Gly Thr Thr Gly Ala Val  
                   100                  105                  110  
 Leu Gly Gln Lys Ala Phe Asp Met Tyr Ser Gly Asp Val Met His Leu  
           115                  120                  125  
 Val Lys Phe Leu Lys Glu Ile Pro Gly Gly Ala Leu Val Leu Val Ala  
           130                  135                  140  
 Ser Tyr Asp Asp Pro Gly Thr Lys Met Asn Asp Glu Ser Arg Lys Leu  
   145                  150                  155                  160  
 Phe Ser Asp Leu Gly Ser Ser Tyr Ala Lys Gln Leu Gly Phe Arg Asp  
                   165                  170                  175  
 Ser Trp Val Phe Ile Gly Ala Lys Asp Leu Arg Gly Lys Ser Pro Phe  
                   180                  185                  190  
 Glu Gln Phe Leu Lys Asn Ser Pro Asp Thr Asn Lys Tyr Glu Gly Trp  
           195                  200                  205  
 Pro Glu Leu Leu Glu Met Glu Gly Cys Met Pro Pro Lys Pro Phe  
           210                  215                  220

&lt;210&gt; 6389

&lt;211&gt; 268

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6389

Pro Gly Ser Asp Val Ala Phe His Phe Asn Pro Arg Phe Asp Gly Trp  
   1                  5                  10                  15

Asp Lys Val Val Phe Asn Thr Leu Gln Gly Gly Lys Trp Gly Ser Glu

## 5642

			20						25						30					
Glu	Arg	Lys	Arg	Ser	Met	Pro	Phe	Lys	Lys	Gly	Ala	Ala	Phe	Glu	Leu					
		35					40					45								
Val	Phe	Ile	Val	Leu	Ala	Glu	His	Tyr	Lys	Val	Val	Val	Asn	Gly	Asn					
	50					55					60									
Pro	Phe	Tyr	Glu	Tyr	Gly	His	Arg	Leu	Pro	Leu	Gln	Met	Val	Thr	His					
	65				70					75					80					
Leu	Gln	Val	Asp	Gly	Asp	Leu	Gln	Leu	Gln	Ser	Ile	Asn	Phe	Ile	Gly					
				85					90					95						
Gly	Gln	Pro	Leu	Arg	Pro	Gln	Gly	Pro	Pro	Met	Met	Pro	Pro	Tyr	Pro					
			100					105					110							
Gly	Pro	Gly	His	Cys	His	Gln	Gln	Leu	Asn	Ser	Leu	Pro	Thr	Met	Glu					
	115					120						125								
Gly	Pro	Pro	Thr	Phe	Asn	Pro	Pro	Val	Pro	Tyr	Phe	Gly	Arg	Leu	Gln					
	130					135					140									
Gly	Gly	Leu	Thr	Ala	Arg	Arg	Thr	Ile	Ile	Ile	Lys	Gly	Tyr	Val	Pro					
145					150				155						160					
Pro	Thr	Gly	Lys	Ser	Phe	Ala	Ile	Asn	Phe	Lys	Val	Gly	Ser	Ser	Gly					
				165					170					175						
Asp	Ile	Ala	Leu	His	Ile	Asn	Pro	Arg	Met	Gly	Asn	Gly	Thr	Val	Val					
			180					185					190							
Arg	Asn	Ser	Leu	Leu	Asn	Gly	Ser	Trp	Gly	Ser	Glu	Glu	Lys	Lys	Ile					
		195					200					205								
Thr	His	Asn	Pro	Phe	Gly	Pro	Gly	Gln	Phe	Phe	Asp	Leu	Ser	Ile	Arg					
	210					215					220									
Cys	Gly	Leu	Asp	Arg	Phe	Lys	Val	Tyr	Ala	Asn	Gly	Gln	His	Leu	Phe					
225					230					235					240					
Asp	Phe	Ala	His	Arg	Leu	Ser	Ala	Phe	Gln	Arg	Val	Asp	Thr	Leu	Glu					
				245					250					255						
Ile	Gln	Gly	Asp	Val	Thr	Leu	Ser	Tyr	Val	Gln	Ile									
			260					265												

<210> 6390

<211> 279

## 5643

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6390

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Pro Arg Val Arg Pro Arg Val Arg Trp Thr Ala Ala Met Arg Leu Thr
 1             5             10             15

Val Leu Cys Ala Val Cys Leu Leu Pro Gly Ser Leu Ala Leu Pro Leu
          20             25             30

Pro Gln Glu Ala Gly Gly Met Ser Glu Leu Gln Trp Glu Gln Ala Gln
          35             40             45

Asp Tyr Leu Lys Arg Phe Tyr Leu Tyr Asp Ser Glu Thr Lys Asn Ala
          50             55             60

Asn Ser Leu Glu Ala Lys Leu Lys Glu Met Gln Lys Phe Phe Gly Leu
          65             70             75             80

Pro Ile Thr Gly Met Leu Asn Ser Arg Val Ile Glu Ile Met Gln Lys
          85             90             95

Pro Arg Cys Gly Val Pro Asp Val Ala Glu Tyr Ser Leu Phe Pro Asn
          100            105            110

Ser Pro Lys Trp Thr Ser Lys Val Val Thr Tyr Arg Ile Val Ser Tyr
          115            120            125

Thr Arg Asp Leu Pro His Ile Thr Val Asp Arg Leu Val Ser Lys Ala
          130            135            140

Leu Asn Met Trp Gly Lys Glu Ile Pro Leu His Phe Arg Lys Val Val
          145            150            155            160

Trp Gly Thr Ala Asp Ile Met Ile Gly Phe Ala Arg Gly Ala His Gly
          165            170            175

Asp Ser Tyr Pro Phe Asp Gly Pro Gly Asn Thr Leu Ala His Ala Phe
          180            185            190

Ala Pro Gly Thr Gly Leu Gly Gly Asp Ala His Phe Asp Glu Asp Glu
          195            200            205

Arg Trp Thr Asp Gly Ser Ser Leu Gly Ile Asn Phe Leu Tyr Ala Ala
          210            215            220

Thr His Glu Leu Gly His Ser Leu Gly Met Gly His Ser Ser Asp Pro
          225            230            235            240

Asn Ala Val Met Tyr Pro Thr Tyr Gly Asn Gly Asp Pro Gln Asn Phe
          245            250            255

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## 5644

Lys Leu Ser Gln Asp Asp Ile Lys Gly Ile Gln Lys Leu Tyr Gly Lys  
                   260                  265                  270

Arg Ser Asn Ser Arg Lys Lys  
                   275

<210> 6391

<211> 245

<212> PRT

<213> Homo sapiens

<400> 6391

Leu Gln Phe Ser Arg Glu Glu Ala Gly Val Asp Leu Val Ser Pro Thr  
   1                  5                  10                  15

Pro Leu Thr Pro Pro Asp Pro Gly Ala Ala Ser Ala Thr Ala Thr Ala  
                   20                  25                  30

Pro Ala Pro Ala Ala Ala Arg Arg Gly Glu Ala Met Ala Lys Val Ser  
                   35                  40                  45

Val Leu Asn Val Ala Val Leu Glu Asn Pro Ser Pro Phe His Ser Pro  
                   50                  55                  60

Phe Arg Phe Glu Ile Ser Phe Glu Cys Ser Glu Ala Leu Ala Asp Asp  
   65                  70                  75                  80

Leu Glu Trp Lys Ile Ile Tyr Val Gly Ser Ala Glu Ser Glu Glu Phe  
                   85                  90                  95

Asp Gln Ile Leu Asp Ser Val Leu Val Gly Pro Val Pro Ala Gly Arg  
                   100                  105                  110

His Met Phe Val Phe Gln Ala Asp Ala Pro Asn Pro Ser Leu Ile Pro  
                   115                  120                  125

Glu Thr Asp Ala Val Gly Val Thr Val Val Leu Ile Thr Cys Thr Tyr  
                   130                  135                  140

His Gly Gln Glu Phe Ile Arg Val Gly Tyr Tyr Val Asn Asn Glu Tyr  
   145                  150                  155                  160

Leu Asn Pro Glu Leu Arg Glu Asn Pro Pro Met Lys Pro Asp Phe Ser  
                   165                  170                  175

Gln Leu Gln Arg Asn Ile Leu Ala Ser Asn Pro Arg Val Thr Arg Phe  
                   180                  185                  190



## 5645

His Ile Asn Trp Asp Asn Asn Met Asp Arg Leu Glu Ala Ile Glu Thr  
 195 200 205

Gln Asp Pro Ser Leu Gly Cys Gly Leu Pro Leu Asn Cys Thr Pro Ile  
 210 215 220

Lys Gly Leu Gly Leu Pro Gly Cys Ile Pro Gly Leu Leu Pro Glu Asn  
 225 230 235 240

Ser Met Asp Cys Ile  
 245

&lt;210&gt; 6392

&lt;211&gt; 472

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (139)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (164)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6392

Leu Lys Gly Glu Gln Gly Glu Arg Gly Gln Trp Pro Glu Arg Ala Leu  
 1 5 10 15

Gly Thr Gly Gly Thr Leu Phe Phe Leu Pro Arg Gly Pro Trp Ala Asp  
 20 25 30

Gly Ile Thr Gln Lys Asn Ala Arg Glu Ala Ala Phe Glu Lys Gly Ser  
 35 40 45

His Tyr Pro Arg Ala Gln Thr Glu Arg Met Glu Leu Arg Lys Tyr Gly  
 50 55 60

Pro Gly Arg Leu Ala Gly Thr Val Ile Gly Gly Ala Ala Gln Ser Lys  
 65 70 75 80

Ser Gln Thr Lys Ser Asp Ser Ile Thr Lys Glu Phe Leu Pro Gly Leu  
 85 90 95

Tyr Thr Ala Pro Ser Ser Pro Phe Pro Pro Ser Gln Val Ser Asp His  
 100 105 110

## 5646

Gln Val Leu Asn Asp Ala Glu Val Ala Ala Leu Leu Glu Asn Phe Ser	115	120	125
Ser Ser Tyr Asp Tyr Gly Glu Asn Glu Ser Xaa Ser Cys Cys Thr Ser	130	135	140
Pro Pro Cys Pro Gln Asp Phe Ser Leu Asn Phe Asp Arg Ala Phe Leu	145	150	155
Pro Ala Leu Xaa Ser Leu Leu Phe Leu Leu Gly Leu Leu Gly Asn Gly	165	170	175
Ala Val Ala Ala Val Leu Leu Ser Arg Arg Thr Ala Leu Ser Ser Thr	180	185	190
Asp Thr Phe Leu Leu His Leu Ala Val Ala Asp Thr Leu Leu Val Leu	195	200	205
Thr Leu Pro Leu Trp Ala Val Asp Ala Ala Val Gln Trp Val Phe Gly	210	215	220
Ser Gly Leu Cys Lys Val Ala Gly Ala Leu Phe Asn Ile Asn Phe Tyr	225	230	235
Ala Gly Ala Leu Leu Leu Ala Cys Ile Ser Phe Asp Arg Tyr Leu Asn	245	250	255
Ile Val His Ala Thr Gln Leu Tyr Arg Arg Gly Pro Pro Ala Arg Val	260	265	270
Thr Leu Thr Cys Leu Ala Val Trp Gly Leu Cys Leu Leu Phe Ala Leu	275	280	285
Pro Asp Phe Ile Phe Leu Ser Ala His His Asp Glu Arg Leu Asn Ala	290	295	300
Thr His Cys Gln Tyr Asn Phe Pro Gln Val Gly Arg Thr Ala Leu Arg	305	310	315
Val Leu Gln Leu Val Ala Gly Phe Leu Leu Pro Leu Leu Val Met Ala	325	330	335
Tyr Cys Tyr Ala His Ile Leu Ala Val Leu Leu Val Ser Arg Gly Gln	340	345	350
Arg Arg Leu Arg Ala Met Arg Leu Val Val Val Val Val Val Ala Phe	355	360	365
Ala Leu Cys Trp Thr Pro Tyr His Leu Val Val Leu Val Asp Ile Leu	370	375	380

## 5647

Met Asp Leu Gly Ala Leu Ala Arg Asn Cys Gly Arg Glu Ser Arg Val  
 385 390 395 400

Asp Val Ala Lys Ser Val Thr Ser Gly Leu Gly Tyr Met His Cys Cys  
 405 410 415

Leu Asn Pro Leu Leu Tyr Ala Phe Val Gly Val Lys Phe Arg Glu Arg  
 420 425 430

Met Trp Met Leu Leu Leu Arg Leu Gly Cys Pro Asn Gln Arg Gly Leu  
 435 440 445

Gln Arg Gln Pro Ser Ser Ser Arg Arg Asp Ser Ser Trp Ser Glu Thr  
 450 455 460

Ser Glu Ala Ser Tyr Ser Gly Leu  
 465 470

&lt;210&gt; 6393

&lt;211&gt; 231

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6393

Ala Arg Glu Met Ala Ala Gln Gln Arg Asp Cys Gly Gly Ala Ala Gln  
 1 5 10 15

Leu Ala Gly Pro Ala Ala Glu Ala Asp Pro Leu Gly Arg Phe Thr Cys  
 20 25 30

Pro Val Cys Leu Glu Val Tyr Glu Lys Pro Val Gln Val Pro Cys Gly  
 35 40 45

His Val Phe Cys Ser Ala Cys Leu Gln Glu Cys Leu Lys Pro Lys Lys  
 50 55 60

Pro Val Cys Gly Val Cys Arg Ser Ala Leu Ala Pro Gly Val Arg Ala  
 65 70 75 80

Val Glu Leu Glu Arg Gln Ile Glu Ser Thr Glu Thr Ser Cys His Gly  
 85 90 95

Cys Arg Lys Asn Phe Phe Leu Ser Lys Ile Arg Ser His Val Ala Thr  
 100 105 110

Cys Ser Lys Tyr Gln Asn Tyr Ile Met Glu Gly Val Lys Ala Thr Ile  
 115 120 125

Lys Asp Ala Ser Leu Gln Pro Arg Asn Val Pro Asn Arg Tyr Thr Phe

## 5648

130                      135                      140  
 Pro Cys Pro Tyr Cys Pro Glu Lys Asn Phe Asp Gln Glu Gly Leu Val  
 145                      150                      155                      160  
 Glu His Cys Lys Leu Phe His Ser Thr Asp Thr Lys Ser Val Val Cys  
                                  165                      170                      175  
 Pro Ile Cys Ala Ser Met Pro Trp Gly Asp Pro Asn Tyr Arg Ser Ala  
                                  180                      185                      190  
 Asn Phe Arg Glu His Ile Gln Arg Arg His Arg Phe Ser Tyr Asp Thr  
                                  195                      200                      205  
 Phe Val Asp Tyr Asp Val Asp Glu Glu Asp Met Met Asn Gln Val Leu  
                                  210                      215                      220  
 Gln Arg Ser Ile Ile Asp Gln  
 225                      230  
  
 <210> 6394  
 <211> 625  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 6394  
 Ala Val Arg Leu Pro Ala Ala Tyr Ile Lys Ala Pro Gly His Ala Glu  
   1                      5                      10                      15  
 Pro Ser Ser Arg Thr Arg Pro Thr Thr Met Arg Ser Cys Leu Trp Arg  
                                  20                      25                      30  
 Cys Arg His Leu Ser Gln Gly Val Gln Trp Ser Leu Leu Leu Ala Val  
                                  35                      40                      45  
 Leu Val Phe Phe Leu Phe Ala Leu Pro Ser Phe Ile Lys Glu Pro Gln  
                                  50                      55                      60  
 Thr Lys Pro Ser Arg His Gln Arg Thr Glu Asn Ile Lys Glu Arg Ser  
   65                      70                      75                      80  
 Leu Gln Ser Leu Ala Lys Pro Lys Ser Gln Ala Pro Thr Arg Ala Arg  
                                  85                      90                      95  
 Arg Thr Thr Ile Tyr Ala Glu Pro Val Pro Glu Asn Asn Ala Leu Asn  
                                  100                      105                      110  
 Thr Gln Thr Gln Pro Lys Ala His Thr Thr Gly Asp Arg Gly Lys Glu  
                                  115                      120                      125

Ala	Asn	Gln	Ala	Pro	Pro	Glu	Glu	Gln	Asp	Lys	Val	Pro	His	Thr	Ala	
130						135					140					
Gln	Arg	Ala	Ala	Trp	Lys	Ser	Pro	Glu	Lys	Glu	Lys	Thr	Met	Val	Asn	
145					150					155						160
Thr	Leu	Ser	Pro	Arg	Gly	Gln	Asp	Ala	Gly	Met	Ala	Ser	Gly	Arg	Thr	
				165					170						175	
Glu	Ala	Gln	Ser	Trp	Lys	Ser	Gln	Asp	Thr	Lys	Thr	Thr	Gln	Gly	Asn	
				180				185					190			
Gly	Gly	Gln	Thr	Arg	Lys	Leu	Thr	Ala	Ser	Arg	Thr	Val	Ser	Glu	Lys	
				195				200					205			
His	Gln	Gly	Lys	Ala	Ala	Thr	Thr	Ala	Lys	Thr	Leu	Ile	Pro	Lys	Ser	
210						215					220					
Gln	His	Arg	Met	Leu	Ala	Pro	Thr	Gly	Ala	Val	Ser	Thr	Arg	Thr	Arg	
225					230					235					240	
Gln	Lys	Gly	Val	Thr	Thr	Ala	Val	Ile	Pro	Pro	Lys	Glu	Lys	Lys	Pro	
				245					250					255		
Gln	Ala	Thr	Pro	Pro	Pro	Ala	Pro	Phe	Gln	Ser	Pro	Thr	Thr	Gln	Arg	
				260				265					270			
Asn	Gln	Arg	Leu	Lys	Ala	Ala	Asn	Phe	Lys	Ser	Glu	Pro	Arg	Trp	Asp	
275						280					285					
Phe	Glu	Glu	Lys	Tyr	Ser	Phe	Glu	Ile	Gly	Gly	Leu	Gln	Thr	Thr	Cys	
290						295					300					
Pro	Asp	Ser	Val	Lys	Ile	Lys	Ala	Ser	Lys	Ser	Leu	Trp	Leu	Gln	Lys	
305					310					315					320	
Leu	Phe	Leu	Pro	Asn	Leu	Thr	Leu	Phe	Leu	Asp	Ser	Arg	His	Phe	Asn	
				325					330					335		
Gln	Ser	Glu	Trp	Asp	Arg	Leu	Glu	His	Phe	Ala	Pro	Pro	Phe	Gly	Phe	
				340				345					350			
Met	Glu	Leu	Asn	Tyr	Ser	Leu	Val	Gln	Lys	Val	Val	Thr	Arg	Phe	Pro	
355						360					365					
Pro	Val	Pro	Gln	Gln	Gln	Leu	Leu	Leu	Ala	Ser	Leu	Pro	Ala	Gly	Ser	
370						375					380					
Leu	Arg	Cys	Ile	Thr	Cys	Ala	Val	Val	Gly	Asn	Gly	Gly	Ile	Leu	Asn	
385					390					395					400	

## 5650

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Asn Ser His Met Gly Gln Glu Ile Asp Ser His Asp Tyr Val Phe Arg
      405                      410                      415

Leu Ser Gly Ala Leu Ile Lys Gly Tyr Glu Gln Asp Val Gly Thr Arg
      420                      425                      430

Thr Ser Phe Tyr Gly Phe Thr Ala Phe Ser Leu Thr Gln Ser Leu Leu
      435                      440                      445

Ile Leu Gly Asn Arg Gly Phe Lys Asn Val Pro Leu Gly Lys Asp Val
      450                      455                      460

Arg Tyr Leu His Phe Leu Glu Gly Thr Arg Asp Tyr Glu Trp Leu Glu
      465                      470                      475                      480

Ala Leu Leu Met Asn Gln Thr Val Met Ser Lys Asn Leu Phe Trp Phe
      485                      490                      495

Arg His Arg Pro Gln Glu Ala Phe Arg Glu Ala Leu His Met Asp Arg
      500                      505                      510

Tyr Leu Leu Leu His Pro Asp Phe Leu Arg Tyr Met Lys Asn Arg Phe
      515                      520                      525

Leu Arg Ser Lys Thr Leu Asp Gly Ala His Trp Arg Ile Tyr Arg Pro
      530                      535                      540

Thr Thr Gly Ala Leu Leu Leu Leu Thr Ala Leu Gln Leu Cys Asp Gln
      545                      550                      555                      560

Val Ser Ala Tyr Gly Phe Ile Thr Glu Gly His Glu Arg Phe Ser Asp
      565                      570                      575

His Tyr Tyr Asp Thr Ser Trp Lys Arg Leu Ile Phe Tyr Ile Asn His
      580                      585                      590

Asp Phe Lys Leu Glu Arg Glu Val Trp Lys Arg Leu His Asp Glu Gly
      595                      600                      605

Ile Ile Arg Leu Tyr Gln Arg Pro Gly Pro Gly Thr Ala Lys Ala Lys
      610                      615                      620

Asn
625

```

&lt;210&gt; 6395

&lt;211&gt; 165

&lt;212&gt; PRT

## 5651

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6395

Xaa	Xaa	Gln	Xaa	Xaa	Pro	Met	Ile	Thr	Pro	Ser	Ser	Asn	Thr	Thr	His
1				5					10					15	

Tyr	Arg	Xaa	Leu	Leu	Val	Arg	Leu	Gln	Val	Pro	Val	Arg	Asn	Ser	Arg
			20					25					30		

Val	Asp	Pro	Arg	Val	Arg	Phe	Ser	Ser	Asp	Lys	Thr	Ala	Leu	Val	Gln
		35					40					45			

Tyr	Phe	Met	Leu	Ser	Glu	Gln	Ile	Val	Tyr	Leu	Cys	Leu	Ser	Ile	Cys
	50					55					60				

Ser	Gln	Gly	Gly	Cys	Leu	Gln	Thr	Phe	Asp	Gln	Asp	Ile	His	Leu	Ile
65					70					75					80

Tyr	Leu	Val	Phe	Phe	Phe	Tyr	Cys	Cys	Phe	Phe	Leu	Arg	Gln	Arg	Phe
			85						90					95	

Ser	Leu	Ser	Pro	Arg	Leu	Glu	Cys	Cys	Gly	Val	Ile	Leu	Ala	His	Cys
			100					105					110		

Asn	Leu	Arg	Leu	Pro	Gly	Ser	Ser	Asn	Phe	Pro	Ala	Ser	Ala	Ser	Arg
			115					120					125		

## 5652

Val Pro Gly Thr Ile Cys Ala His His His Ala Trp Leu Ile Phe Cys  
130 135 140

Ile Phe Ser Arg Asp Gly Val Ser Pro Cys Trp Leu Gly Trp Ser Arg  
145 150 155 160

Thr Pro Asn Leu Lys  
165

<210> 6396

<211> 35

<212> PRT

<213> Homo sapiens

<400> 6396

Phe Gln Leu Leu Gly Arg Leu Arg Gln Glu Asn Cys Leu Asn Pro Gly  
1 5 10 15

Asp Gly Gly Cys Ser Asp Pro Arg Ser Cys Gln Cys Thr Pro Ala Trp  
20 25 30

Val Thr Glu  
35

<210> 6397

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE



## 5653

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6397

Ile	Pro	Gln	Met	Gln	Pro	Gly	Gly	Val	Gln	Ala	Pro	Xaa	Ile	Gln	Gln
1				5					10					15	

Val	Leu	Ala	Pro	Xaa	Pro	Gly	Gly	Ile	Ser	Pro	Gln	Thr	Gly	Gly	Ile
			20					25					30		

Ile	Gln	Xaa	Xaa	Xaa	Ile
					35

&lt;210&gt; 6398

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6398

Asn	Ser	Ala	Glu	Leu	Trp	Ala	Glu	Glu	Tyr	Ala	His	Val	Val	Leu	Arg
1				5					10					15	

Lys	Ala	Asp	Ile	Asp	Leu	Thr	Lys	Arg	Ala	Gly	Glu	Leu	Thr	Glu	Asp
			20					25					30		

Glu	Val	Glu	Arg	Val	Ile	Thr	Ile	Met	Gln	Asn	Pro	Arg	His	Thr	Arg
			35				40					45			

Ser	Gln	Thr	Gly	Ser
				50

&lt;210&gt; 6399

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6399

Gly	Val	Pro	Val	Pro	Ser	Leu	Ala	Gly	Ile	Met	Gln	Arg	Thr	Phe
1				5				10					15	

Ala	Trp	Leu	Leu	Asp	Arg	Val	Gln	His	Leu	Gly	Ala	Pro	Val	Thr	Leu
			20				25						30		

## 5654

Arg Ala Ser Tyr Leu Glu Ile Tyr Asn Glu Gln Val Ser Ala Val Glu  
35 40 45

Gly Thr Gln Pro Thr Pro  
50

<210> 6400  
<211> 73  
<212> PRT  
<213> Homo sapiens

<400> 6400  
Gly Lys Ile Asp Pro Asp Gln Thr Val Ile Arg Ala Glu Ser Leu Asp  
1 5 10 15

Gly Gly Asp Thr Ser Ser Thr Val Val Glu Ser Gln Glu Gly Leu Ser  
20 25 30

Gly Thr His Val Pro Glu Ser Ser Asp Cys Cys Glu Gly Phe Ile Asn  
35 40 45

Thr Phe Ser Ser Asn Asp Met Asp Gly Gln Asp Leu Asp Tyr Phe Asn  
50 55 60

Ile Asp Glu Arg Ala Lys Met Ala His  
65 70

<210> 6401  
<211> 101  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 5655

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (55)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (78)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (87)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (91)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6401  
Glu Ser Xaa Trp Lys Thr Xaa His Tyr Ser Xaa Ser Trp Tyr Xaa Cys  
1 5 10 15

Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Pro Gly  
20 25 30

Thr Ser Thr Asn Gly Lys Xaa Leu Ala Ala Thr Ala Pro Thr Pro Gly  
35 40 45

## 5656

Ile Pro Ile Leu Gln Xaa Xaa Pro Ser Ala Pro Pro Pro Lys Ala Gln  
50 55 60

Xaa Val Ser Pro Val Gln Ala Pro Pro Pro Gly Gly Ser Xaa Gln Leu  
65 70 75 80

Leu Pro Gly Lys Val Leu Xaa Pro Leu Ala Xaa Pro Ser Met Ser Val  
85 90 95

Arg Gly Gly Gly Ala  
100

<210> 6402

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

## 5657

&lt;222&gt; (93)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (96)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6402

Gly	Asn	Tyr	Tyr	Leu	Lys	Phe	Ser	Val	Val	Ser	Asp	Lys	Asn	His	Met
1				5					10					15	

His	Phe	Gly	Ala	Ile	Thr	Xaa	Ala	Met	Gly	Ile	Arg	Phe	Lys	Ser	Tyr
			20					25					30		

Cys	Ser	Asn	Leu	Val	Arg	Thr	Leu	Met	Val	Asp	Pro	Ser	Gln	Glu	Val
		35					40					45			

Gln	Glu	Asn	Tyr	Asn	Phe	Xaa	Leu	Gln	Leu	Gln	Glu	Glu	Leu	Leu	Lys
	50					55				60					

Glu	Leu	Arg	His	Gly	Glu	Lys	Ile	Cys	Asp	Xaa	Tyr	Asn	Ala	Xaa	Met
65					70					75					80

Asp	Val	Val	Lys	Lys	Xaa	Lys	Pro	Glu	Leu	Xaa	Asn	Xaa	Asn	Tyr	Xaa
				85					90					95	

Lys	Pro	Arg	Val	Arg	Asp	Gly	Asn
							100

&lt;210&gt; 6403

&lt;211&gt; 68

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5658

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (68)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6403

Pro	Gly	Xaa	Glu	Xaa	Xaa	Pro	Thr	Val	Xaa	Gln	Val	Glu	Xaa	Ala	Ala
1				5					10					15	

His	Ser	Ile	Gln	Val	Glu	Lys	Ala	Ala	His	Ser	Ile	Gln	Val	Glu	Glu
			20					25				30			

Gly	Ser	Pro	Gln	Xaa	Ser	Arg	Val	Arg	Arg	Gln	Pro	Thr	Gly	Ile	Gln
		35					40					45			

Gly	Glu	Glu	Gly	Cys	Pro	Gln	Ala	Ser	Arg	Val	Arg	Lys	Ala	Ala	His
	50					55					60				

Arg	His	Pro	Xaa
			65

&lt;210&gt; 6404

&lt;211&gt; 88

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (68)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5659

&lt;222&gt; (77)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (85)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (88)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6404

Val	Glu	Asp	Pro	Leu	Arg	Ser	Cys	Cys	Leu	Val	Ala	Ala	Asp	Ala	Gln
1				5					10					15	

Glu	Pro	Glu	Gly	Ala	Gly	Ser	Asp	Ser	Gly	Asp	Ser	Pro	Ala	Ser	Ser
			20					25					30		

Cys	Ser	Ser	Ser	Glu	Asp	Ser	Glu	Gln	Arg	Gly	Val	Gly	Ala	Gly	Gly
			35				40					45			

Pro	Glu	Glu	Gly	Ala	Pro	Pro	Ala	Thr	Ser	Ala	Glu	Arg	Thr	Asn	Gly
	50					55					60				

Gly	Ala	Asp	Xaa	Ala	Trp	Ala	Phe	Leu	Thr	Phe	Thr	Xaa	Thr	Leu	Ala
65					70					75					80

Thr	Arg	Ser	Arg	Xaa	Ser	Arg	Xaa
				85			

&lt;210&gt; 6405

&lt;211&gt; 75

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6405

Lys	Phe	Tyr	Met	Asn	Ser	Tyr	Phe	Phe	Leu	Asp	Asn	Met	Leu	Ile	Phe
1				5					10				15		

Ile	Asp	Phe	Thr	Asn	Leu	Gln	His	Met	Gly	Asp	Phe	Gly	Ser	Ile	His
			20					25					30		

## 5660

Arg Pro Gly Ile Val Val Asp Tyr Gln Asn Lys Ser Thr Asn Val Thr  
                   35                  40                  45

Val Ala Ala Ala Arg Gly Ile Xaa Arg Lys Met Met Gln Pro Phe Asn  
           50                  55                  60

Lys Pro Ser Gly Thr Phe Ile Lys Asn Pro Asn  
   65                  70                  75

<210> 6406

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6406

Ala Leu Ser Gln Ile Thr Leu Arg Lys Ser Val Glu Ser Ala Leu Arg  
   1                  5                  10                  15

Gln Leu Glu Arg Glu Lys Ala Leu Leu Gln His Lys Asn Ala Glu Tyr  
           20                  25                  30

Gln Arg Lys Ala Asp His Glu Ala Asp Xaa Lys Arg Xaa Leu Glu Asn  
           35                  40                  45

Asp Gly Leu Xaa Xaa Arg Ile Leu Asn Thr His Gln Glu Lys  
   50                  55                  60



## 5661

&lt;210&gt; 6407

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6407

Arg Gln Ser Gln Leu Ala Gln Asp Glu Arg Val Ser Arg Ser Tyr Leu  
 1 5 10 15

Ala Leu Ala Thr Glu Thr Val Asp Met Phe His Ile Leu Pro Gln Ser  
 20 25 30

Asn Val Ser Pro Arg Ala Arg Phe Cys Ser Met Lys Val Trp Ser Leu  
 35 40 45

&lt;210&gt; 6408

&lt;211&gt; 104

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6408

Gly Thr Ser Met Asp Val Ile Ser Ile Asp Lys Thr Gly Glu Asn Phe  
 1 5 10 15

Arg Leu Ile Tyr Asp Thr Lys Gly Arg Phe Ala Val His Arg Ile Thr  
 20 25 30

Pro Glu Glu Ala Lys Tyr Lys Leu Cys Lys Val Arg Lys Ile Phe Xaa  
 35 40 45

Gly Thr Lys Gly Ile Pro His Leu Val Thr His Asp Ala Arg Thr Ile  
 50 55 60

Arg Tyr Pro Asp Pro Leu Ile Lys Val Asn Asp Thr Ile Gln Ile Asp  
 65 70 75 80

Leu Glu Thr Gly Lys Ile Thr Asp Phe Ile Lys Phe Asp Thr Gly Asn  
 85 90 95

Leu Cys Met Val Thr Trp Arg Cys  
 100

5662

<210> 6409  
<211> 49  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (48)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6409  
Thr Ser Leu Pro Ala Val Phe Pro Gly Gln Val Arg Arg Thr Leu Phe  
1 5 10 15  
Ile Thr Gly Leu Pro Arg Asp Ala Arg Lys Glu Thr Xaa Glu Ser His  
20 25 30  
Phe Arg Asp Ala Tyr Pro Thr Cys Lys Val Val Asp Val Gln Leu Xaa  
35 40 45

Tyr

<210> 6410  
<211> 191  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (121)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (157)

## 5663

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (182)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (191)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6410

Gly	Arg	Glu	Ile	Xaa	Arg	Ser	Phe	His	Leu	Val	Ile	Ser	Thr	Glu	His
1				5					10					15	

Arg	Pro	Pro	Thr	Met	Glu	Phe	Gly	Pro	Ser	Trp	Val	Phe	Leu	Val	Ala
			20					25					30		

Ile	Leu	Lys	Gly	Val	His	Cys	Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly
		35					40					45			

Gly	Leu	Val	Gln	Pro	Gly	Arg	Ser	Leu	Arg	Leu	Ser	Cys	Thr	Thr	Ser
	50					55					60				

Gly	Phe	Thr	Phe	Gly	Asp	Tyr	Ser	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro
65					70					75					80

Gly	Lys	Gly	Leu	Glu	Trp	Val	Gly	Phe	Ile	Arg	Ser	Lys	Ala	His	Gly
			85						90					95	

Gly	Thr	Thr	Glu	Tyr	Ala	Ala	Ser	Val	Lys	Arg	Gln	Ile	His	His	Leu
			100					105					110		

Lys	Glu	Met	Ile	Pro	Gln	Ala	Ser	Xaa	Ile	Trp	Gln	Met	Asn	Ser	Leu
		115						120				125			

## 5664

Lys Pro Arg Thr Gln Thr Leu Leu Leu Ser Arg His Asp Tyr Arg His  
 130 135 140

Thr Pro Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Xaa Phe Ser Gly  
 145 150 155 160

Phe His Gln Gly Pro Ser Ser Ser Pro Trp Xaa Pro Cys Ser Arg Xaa  
 165 170 175

Thr Ser Glu Xaa Gln Xaa Pro Gly Leu Ala Gly Gln Gly Leu Xaa  
 180 185 190

<210> 6411

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6411

Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Ala Xaa Ala Leu Glu Leu  
 1 5 10 15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Ser Phe Gln Ile  
 20 25 30

Lys Asn Trp Leu Pro Phe Phe Val Arg Val Ser Asp Ala Ala Thr His  
 35 40 45

Ser Ala Pro Gln Asn Ser  
 50

<210> 6412

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 5665

<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6412  
Xaa Xaa Xaa Thr Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser  
1 5 10 15  
Thr Cys Gly Ala Xaa Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg  
20 25 30  
Asn Ser Ala Arg Gly Gly Ala Pro Val Met Leu Ser Thr Leu Gln Met  
35 40 45  
Cys Cys Leu Ser His  
50

<210> 6413  
<211> 67  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 5666

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6413

Thr	Leu	Thr	Lys	Gly	Asn	Lys	Ser	Trp	Ser	Ser	Thr	Ala	Val	Xaa	Ala
1				5				10						15	

Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Xaa	Ser	Ala	Arg	Ala
		20						25					30		

Ala	Ala	Xaa	Gly	Pro	Leu	Gln	Pro	Cys	Arg	Ile	Lys	Thr	Arg	Arg	Arg
		35					40					45			

Lys	Asn	His	Gln	Lys	Gln	Gly	Arg	Val	Glu	Lys	Val	Gln	Lys	Lys	Asp
	50					55					60				

Lys	Thr	Gln
65		

&lt;210&gt; 6414

&lt;211&gt; 50

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6414

Xaa	Xaa	Thr	Leu	Thr	Lys	Gly	Asn	Lys	Ser	Trp	Ser	Ser	Thr	Ala	Val
1					5				10					15	

Xaa	Xaa	Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 5667

20 25 30  
 Arg Gly Gly Ile Val Cys Leu Leu Leu Met Asn Leu Gln Trp Leu Gln  
 35 40 45  
 Asn Asp  
 50  
  
 <210> 6415  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (1)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 6415  
 Xaa Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val  
 1 5 10 15  
 Thr Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala  
 20 25 30  
 Arg Ala Thr Thr Gly Glu Ser Ile His Gln Val Thr Glu Phe Leu Gln  
 35 40 45  
 Arg Gly His Tyr  
 50

<210> 6416  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>

## 5668

<221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (6)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6416  
 Xaa Asn Lys Xaa Xaa Xaa Ser Thr Ala Val Xaa Ala Ala Leu Glu Leu  
           1                  5                  10                  15  
 Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Val Leu Phe Ser  
                   20                  25                  30  
 Ile Met Asn Ser Trp Leu Arg  
                   35

<210> 6417  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6417  
 Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Ala  
           1                  5                  10                  15  
 Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg  
                   20                  25                  30  
 Gly Arg Leu Met Met Thr Phe Ser Gln Val Leu Gly Lys Lys Leu Lys  
           35                  40                  45



## 5669

Leu Leu Leu  
50

<210> 6418

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6418

Ser	Thr	Leu	Ile	Lys	Gly	Thr	Lys	Ser	Trp	Xaa	Ser	Thr	Ala	Val	Ala
1				5					10					15	

Ala	Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser	Ala	Arg
			20					25					30		

Asp	Asp	Ile	Glu	Thr	Ser	Val	Ile
		35					40

<210> 6419

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6419

Gly	Xaa	Xaa	Asn	Leu	Thr	Lys	Gly	Asn	Lys	Ser	Trp	Ser	Ser	Thr	Ala
1				5					10					15	

Val	Ala	Ala	Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser
				20				25					30		

Ala	Arg	Gly	Leu	Ile	Ser	Ser	His	Leu
			35					40

## 5670

<210> 6420  
<211> 37  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6420  
Xaa Ser Xaa Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val  
1 5 10 15  
Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala  
20 25 30  
Arg Ala Phe Gly Phe  
35

<210> 6421  
<211> 29  
<212> PRT  
<213> Homo sapiens

<400> 6421  
Lys Asn His Lys Pro Ser Val Leu Leu Gly Phe Asp Met Ser Glu Leu  
1 5 10 15  
Lys Asn Val Lys His Arg Leu Asn Phe Glu Tyr Glu Pro  
20 25

<210> 6422  
<211> 85  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE

## 5671

&lt;222&gt; (66)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (82)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (83)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6422

Ala	Ile	Gln	Arg	Thr	Pro	Lys	Ile	Gln	Val	Tyr	Ser	Arg	His	Pro	Ala
1				5				10					15		

Glu	Asn	Gly	Lys	Ser	Asn	Phe	Leu	Asn	Cys	Tyr	Val	Ser	Gly	Phe	His
	20						25						30		

Pro	Ser	Asp	Ile	Glu	Val	Asp	Leu	Leu	Lys	Asn	Gly	Glu	Arg	Ile	Glu
	35						40					45			

Lys	Val	Glu	His	Ser	Asp	Leu	Ser	Phe	Ser	Lys	Asp	Trp	Leu	Ser	Ile
50						55					60				

Ser	Xaa	Thr	Thr	Leu	Asn	Ser	Pro	Pro	Leu	Lys	Lys	Met	Ser	Met	Pro
65					70					75					80

Ala	Xaa	Xaa	Thr	Met
				85

&lt;210&gt; 6423

&lt;211&gt; 172

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (103)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (124)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5672

&lt;222&gt; (153)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (159)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (170)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (172)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6423

Pro	Gln	Ser	Lys	Val	Leu	Tyr	Ile	Thr	Ser	Asn	Pro	Met	Ser	Leu	Cys
1				5					10					15	

Gln	Ala	Ser	Arg	His	Gln	Pro	Asn	Val	Asn	Asp	Leu	Leu	Val	His	Gly
			20					25					30		

Met	Pro	Leu	Gln	Pro	Arg	Asn	Leu	Ser	Leu	Met	Asp	Lys	Leu	Leu	Asp
		35					40					45			

Leu	Asp	Asp	Lys	Leu	Leu	Met	Arg	Pro	Gly	Ser	Ser	Thr	Ile	Leu	Ser
	50					55					60				

Thr	Arg	Asn	Trp	Pro	Asn	Arg	Ala	Val	Glu	Phe	Ser	Thr	Ser	Ser	Leu
65					70					75					80

Ser	Tyr	Thr	Val	Gln	Ser	Thr	Arg	Arg	Arg	Asn	Pro	Pro	Pro	Arg	Thr
				85					90					95	

Leu	His	Pro	Ile	Ser	Thr	Xaa	His	Ser	Cys	Ala	Glu	Thr	Pro	Gly	Ser
			100					105					110		

Val	Glu	Glu	Ile	Leu	Arg	Gly	Ala	Arg	Val	Pro	Xaa	Ala	Pro	Asp	Ser
		115					120					125			

Leu	Ser	Phe	Ser	Leu	Thr	Asp	Ala	Pro	Glu	Leu	Lys	Leu	Ile	Cys	Tyr
	130					135					140				

His	Leu	Leu	Gly	Thr	Ala	Glu	Val	Xaa	Thr	Cys	Asp	His	Cys	Xaa	Gly
145					150					155					160

His	Arg	Asp	Lys	Met	Asn	Pro	Gln	Trp	Xaa	Leu	Xaa
			165					170			

## 5673

<210> 6424  
<211> 129  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (104)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (105)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (109)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (112)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (124)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (127)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6424  
Phe Gly Thr Ser Ile Glu Val Arg Asn Tyr Ser Arg Leu Lys Pro Gly  
1 5 10 15  
Tyr Arg Trp Glu Arg Gln Leu Val Phe Arg Ser Lys Leu Thr Met His  
20 25 30  
Thr Ala Phe Asn Arg Lys Asp Asn Ala His Pro Ala Glu Val Thr Ala  
35 40 45  
Leu Gly Ile Ser Lys Asp His Ser Arg Ile Leu Val Gly Asp Ser Arg  
50 55 60

## 5674

Gly Arg Val Phe Ser Trp Ser Val Ser Asp Gln Pro Gly Arg Ser Ala  
 65 70 75 80

Ala Asp His Trp Val Lys Asp Glu Gly Gly Asp Ser Cys Ser Gly Cys  
 85 90 95

Ser Val Arg Phe Ser Leu Thr Xaa Xaa Arg His His Xaa Arg Asn Xaa  
 100 105 110

Gly Ser Ala Leu Leu Pro Glu Val His Arg Phe Xaa Ser Glu Xaa Asn  
 115 120 125

Val

<210> 6425

<211> 118

<212> PRT

<213> Homo sapiens

<400> 6425

Asp Glu Leu Ser Glu Ala Leu Leu Leu Ile Lys Ala Gln Lys Glu Gln  
 1 5 10 15

Lys Asn Gly Asp Leu Ser Phe Leu Val Lys Val Asp Ser Glu Ile Asn  
 20 25 30

Lys Asp Leu Glu Arg Ser Met Arg Glu Leu Gln Ala Thr His Ala Glu  
 35 40 45

Thr Val Gln Glu Leu Glu Lys Thr Arg Asn Met Leu Ile Met Gln His  
 50 55 60

Lys Ile Asn Lys Asp Tyr Gln Met Glu Val Glu Ala Val Thr Arg Lys  
 65 70 75 80

Met Glu Asn Leu Gln Gln Asp Tyr Glu Leu Lys Val Glu Gln Tyr Val  
 85 90 95

His Leu Leu Asp Ile Arg Ala Ala Arg Ile His Lys Leu Glu Glu Ala  
 100 105 110

Val Ser Leu Gly Ser Ile  
 115

<210> 6426

<211> 51

## 5675

<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6426  
Glu Arg Gly Gly Xaa Val Asn Leu Leu Lys Leu Val Pro Cys Xaa Tyr  
1 5 10 15  
Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Val Gln Asp Gly Ala  
20 25 30  
Thr Gly Ala Gly Leu Ser Ala His Gln Ala Arg Pro Ile Leu Arg Pro  
35 40 45  
Val Xaa Xaa  
50

<210> 6427  
<211> 108  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)

## 5676

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6427

Val	Ala	Leu	Leu	Ala	Leu	Leu	Cys	Ala	Ser	Ala	Ser	Gly	Asn	Ala	Ile
1				5					10					15	

Gln	Ala	Arg	Ser	Ser	Ser	Tyr	Ser	Gly	Glu	Tyr	Gly	Gly	Gly	Gly	Gly
			20					25					30		

Lys	Xaa	Phe	Xaa	His	Ser	Gly	Asn	Gln	Leu	Asp	Gly	Pro	Ile	Thr	Ala
	35						40					45			

Leu	Arg	Val	Arg	Val	Asn	Thr	Tyr	Tyr	Ile	Val	Gly	Leu	Gln	Val	Arg
	50					55					60				

Tyr	Gly	Lys	Val	Trp	Ser	Asp	Tyr	Val	Gly	Gly	Arg	Asn	Gly	Asp	Leu
65					70					75				80	

Glu	Glu	Ile	Phe	Leu	Xaa	Pro	Gly	Glu	Ser	Val	Ile	Gln	Val	Ser	Gly
				85					90					95	

Xaa	Tyr	Lys	Trp	Tyr	Leu	Lys	Glu	Ala	Gly	Ile	Xaa
		100					105				

<210> 6428

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids



## 5677

<220>  
 <221> SITE  
 <222> (48)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (54)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (64)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (66)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (79)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6428  
 Pro Phe Ser Val Pro Gln Pro Leu Ala Met Pro Phe Arg Pro Gly Leu  
 1 5 10 15  
 Pro Pro Ile Val Glu Ser Met Xaa Val Val Val Glu Thr Ile Leu Ser  
 20 25 30  
 Phe Trp Gln Pro Val Gly Arg Pro Ile Thr Ala Leu Arg Val Arg Xaa  
 35 40 45  
 Asn Thr Tyr Tyr Ile Xaa Gly Leu Gln Val Ala Tyr Gly Gln Gly Xaa  
 50 55 60  
 Glu Xaa Thr Ile Xaa Val Cys Ser Pro Thr Gly Lys Pro Gly Xaa Lys  
 65 70 75 80  
 Ile Phe Ser Cys Pro Pro Trp Gly Asn  
 85

## 5678

<210> 6429  
 <211> 181  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (132)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (164)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (176)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (178)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (181)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6429  
 Phe Phe Ser Ile Met Phe Thr Pro Leu Asp Arg Tyr Xaa Asp Arg Asn  
   1                  5                  10                  15  
 Met Gln Ile Asn Arg His Gln Tyr Cys Ala Leu Lys Ala Met Ser Ala  
                   20                  25                  30  
 Val Leu Cys Cys Gly Pro Val Ala Asp Asn Val Gly Leu Ser Ser Asp  
           35                  40                  45  
 Gly Tyr Leu Tyr Lys Trp Leu Asp Asn Ile Leu Asp Ser Leu Asp Lys  
       50                  55                  60  
 Lys Val His Gln Leu Gly Cys Glu Ala Val Thr Leu Leu Leu Glu Leu  
       65                  70                  75                  80

## 5679

Asn Pro Asp Gln Ser Asn Leu Met Tyr Trp Ala Val Asp Arg Cys Tyr  
                     85                    90                    95

Thr Gly Ser Gly Arg Val Ala Ala Gly Cys Phe Lys Ala Ile Ala Asn  
                     100                    105                    110

Val Phe Gln Asn Arg Asp Tyr Gln Cys Asp Thr Val Met Leu Leu Asn  
                     115                    120                    125

Leu Ile Leu Xaa Lys Ala Ala Asp Ser Ser Arg Ser Ile Tyr Glu Val  
                     130                    135                    140

Ala Met Gln Leu Leu Gln Ile Leu Glu Pro Lys Met Phe Arg Tyr Ala  
                     145                    150                    155                    160

His Lys Leu Xaa Val Gln Arg Thr Glu Trp Arg Thr His Pro Val Xaa  
                     165                    170                    175

Pro Xaa His Asn Xaa  
                     180

<210> 6430

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6430

Gly Arg Val Xaa Gly Arg Val Gly Gly Ala Val Phe Gln Ile Tyr Ile  
                     1                    5                    10                    15

Ile Lys Asp Leu Glu Lys Leu Leu Met Ile Ala Gly Glu Glu Arg Ala  
                     20                    25                    30

Leu Cys Leu Val Asp Val Lys Lys Val Lys Gln Ser Leu Ala Gln Ser  
                     35                    40                    45

His Leu Pro Ala Gln Pro Asp Ile Ser Pro Asn Ile Phe Glu Ala Val  
                     50                    55                    60

Lys Gly Cys His Leu Phe Gly Ala Gly Gln Glu Leu Arg Thr  
                     65                    70                    75

## 5680

<210> 6431  
<211> 62  
<212> PRT  
<213> Homo sapiens

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## 5681

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 Gly Phe Cys Arg Ser Ser Thr Leu Xaa Gln His Xaa Arg Val His Xaa  
     1                    5                    10                    15  
 Gly Glu Arg Pro Tyr Lys Cys Asp Asp Cys Xaa Lys Ala Xaa Ser Xaa  
                     20                    25                    30  
 Ser Ser Asp Leu Ile Arg His Gln Xaa Thr His Xaa Xaa Asp Xaa Xaa  
             35                    40                    45  
 Xaa Pro Gly Ala Pro Ala Trp Val Xaa Gly Val Gly Arg Arg  
     50                    55                    60

<210> 6432  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 6432  
 Glu Leu Arg Cys Ser Leu Gln Leu Ala Glu Thr Glu Arg Glu Gly Gly  
     1                    5                    10                    15  
 Phe Ser Pro His Ile Ser Pro Phe Thr Ala Val Asn Asp Leu Gly His  
             20                    25                    30  
 Leu Leu Gly Arg Ala Gly Phe Asn Thr Leu Thr Val Asp Thr Asp Glu  
             35                    40                    45  
 Ile Gln Val Asn Tyr Pro Gly Met Phe Glu Leu Met Glu Asp Leu Gln  
     50                    55                    60

5682

Glu Gln Lys Ser Arg Met Leu Thr  
65 70

<210> 6433

<211> 151

<212> PRT

<213> Homo sapiens

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<222> (1)

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<222> (151)

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## 5683

&lt;400&gt; 6433

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Xaa Xaa Lys Leu Pro Xaa Glu Gly Pro Leu Gly Arg Leu Xaa Val Pro
 1              5              10              15

Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg Pro Arg Val Arg Pro
          20              25              30

Arg Val Arg Glu Phe Arg Lys Ala Lys Ala Ser Ser Thr Gly Ser Phe
          35              40              45

Thr Ala Pro Asp Pro Gly Leu Lys Arg Lys Ser Pro Pro Glu Ala Leu
 50              55              60

Ser Gly Ser Leu Pro Pro Ala Thr Thr Cys Pro Ala Ser Ser Thr Pro
 65              70              75              80

Ala Pro Thr Ile Ile Pro Ala Pro Ala Ala Pro Gly Lys Pro Ala Ser
          85              90              95

Ala Ala Thr Val Lys Arg Lys Arg Lys Ser Arg Trp Gly Pro Glu Glu
          100              105              110

Asp Lys Val Glu Leu Pro Pro Ala Glu Leu Val Gln Arg Asp Val Asp
          115              120              125

Ala Ser Pro Ser Pro Xaa Gln Xaa Arg Thr Ser Arg Gly Ser Xaa Met
          130              135              140

Arg Arg Gly Ser Leu Trp Xaa
145              150

```

&lt;210&gt; 6434

&lt;211&gt; 104

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (89)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (92)

## 5684

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<222> (94)

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<400> 6434

Asp Xaa Ser Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser  
1 5 10 15

Ala Asp Ala Cys Phe Ala Phe Tyr Ala Tyr His Tyr Arg Phe Asn Gly  
20 25 30

Gln Tyr Ser Ser Leu Ala Leu Val Thr Tyr Trp Leu Phe Ile Gln Val  
35 40 45

Arg Pro Gly Arg Gln Ala Gly Gly Arg Pro Ala Val Pro Phe Gln Ala  
50 55 60

Gly Glu Ala Ala Ala Gly Glu Asp Ala Leu Trp Gly Arg Pro Lys Arg  
65 70 75 80

Ala Glu Val Ala Trp Met Val Pro Xaa Gly Leu Xaa Ser Xaa Ser Ser  
85 90 95

Gly Trp Val Val Lys Gly Gly Pro  
100

<210> 6435

<211> 83

<212> PRT

<213> Homo sapiens

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<400> 6435

Gly Thr Ser Ala Cys Gly Ala Gly Gly Gly Ala Pro Arg Gly Ser Ala  
1 5 10 15

Val Phe Arg Ala Ala Gly Leu Asp Gly Ala Leu Gly Lys Ala Leu Lys  
20 25 30

Glu Gln Lys Tyr Asp Arg Gln Leu Arg Leu Trp Gly Asp His Gly Gln  
35 40 45



## 5685

Glu Ala Leu Glu Ser Ala His Val Cys Leu Ile Asn Ala Thr Ala Thr  
 50 55 60

Gly Thr Glu Ile Leu Lys Asn Leu Val Leu Pro Gly Ile Gly Ser Phe  
 65 70 75 80

Thr Ile Xaa

<210> 6436

<211> 26

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6436

Thr Ser Ser Ala Lys Asp Val Pro Ala Gly Ser Leu Arg Thr Ala Leu  
 1 5 10 15

Asn Glu Leu Lys Arg Leu Ile Xaa Ser Ile  
 20 25

<210> 6437

<211> 91

<212> PRT

<213> Homo sapiens

<400> 6437

His Gly Ala Gly Asn Glu Ala Glu Thr Pro Pro Ala Pro Lys Leu His  
 1 5 10 15

Trp Asp Pro Leu Pro Gly Leu Asp Glu Pro Gly Arg Gly Gln His Ser  
 20 25 30

Gly Ser Leu Gly Thr Gly Gln Leu Pro Leu Pro Leu Leu Ser Ala Arg  
 35 40 45

Pro Asp Gly Ala Arg Glu Arg Arg Trp Pro Arg Gln Pro Ala Ser Thr  
 50 55 60

Ser Glu Pro Gly Ser Pro Ser Pro Arg Thr Cys Ala Pro Phe Thr Arg  
 65 70 75 80

## 5686

Thr Gln Asn Ile Leu Lys Cys Tyr Cys Ile Pro  
                     85                    90

<210> 6438

<211> 114

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6438

Xaa Leu Met Lys Asp Gln Phe Tyr Ala Gln Ser Ser Ala Ser Gln Arg  
   1                    5                    10                    15

Arg Leu Pro Cys Leu Ala Val Gly Gly Ser Gly Tyr Ala Pro Glu Gln  
                     20                    25                    30

Leu Ser Gly Phe Trp Leu Ser Trp Cys Pro Arg Gly Thr Gly Ser Leu  
                     35                    40                    45

Leu Ser Gly Gly Trp Gly Phe Met Pro Arg Asp Asp Arg Leu Gly Cys  
   50                    55                    60

Gly Val Ala Gly Ala Gln Thr Gln Met Pro Val Ala Gly Gly Pro Gln  
   65                    70                    75                    80

Ser Gly Leu Gly Leu Pro Ser Gly Pro Phe Pro Gln Leu His Cys Cys  
                     85                    90                    95

Pro Arg Glu Pro Arg Ser Pro Gly Val Lys Asp Arg Gly Gly Arg Gly  
                     100                    105                    110

Gln Ala

<210> 6439

<211> 64

<212> PRT

<213> Homo sapiens

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<222> (3)

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5687

&lt;220&gt;

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&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6439

Thr	Thr	Xaa	Xaa	Thr	Leu	Xaa	Ala	Ser	Pro	Ser	Arg	Gly	Arg	Leu	Xaa
1				5					10					15	

Gly	Val	Gln	Gly	Thr	Cys	Leu	Gly	Arg	Cys	Glu	Ser	Pro	Leu	Pro	Ser
			20					25					30		

His	Pro	Cys	Pro	Asn	Arg	Trp	Ser	Cys	Cys	Leu	Glu	Ser	Glu	Glu	Leu
		35					40					45			

Trp	Cys	Pro	Cys	Phe	Gly	Pro	Gly	Pro	Ala	Pro	Ala	Ser	Asp	Arg	Pro
	50					55					60				

&lt;210&gt; 6440

&lt;211&gt; 81

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6440

Gly	Leu	Gly	Leu	Lys	His	Leu	Trp	Lys	Pro	Ala	Val	Glu	Ala	Tyr	Gly
1				5					10					15	

Glu	Phe	Leu	Cys	Met	Phe	Glu	Glu	Asn	Tyr	Pro	Glu	Thr	Leu	Lys	Arg
			20					25					30		

Leu	Phe	Val	Val	Lys	Ala	Pro	Lys	Leu	Phe	Pro	Val	Ala	Tyr	Asn	Leu
			35				40					45			

Ile	Lys	Pro	Phe	Leu	Ser	Glu	Asp	Thr	Arg	Lys	Lys	Ile	Met	Val	Leu
	50						55				60				

## 5688

Gly Gly Gly Ser Leu Cys Gln Met Glu Arg Met Leu Val Leu Gly Phe  
 65 70 75 80

Ser

<210> 6441

<211> 117

<212> PRT

<213> Homo sapiens

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<222> (18)

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<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6441

Ala Thr Leu Asp Arg Lys Val Pro Ser Pro Glu Ala Phe Leu Gly Lys  
 1 5 10 15

Pro Xaa Ser Ser Trp Xaa Asp Xaa Ala Lys Leu His Cys Ser Asp Asn  
 20 25 30

Val Asp Leu Glu Glu Ala Gly Lys Glu Gly Gly Lys Ser Arg Glu Val  
 35 40 45

Met Arg Leu Asn Lys Glu Asp Met His Leu Phe Gly His Tyr Pro Ala  
 50 55 60

His Asp Asp Phe Tyr Leu Val Val Cys Ser Ala Cys Asn Gln Val Val  
 65 70 75 80

Lys Pro Gln Val Phe Gln Ser His Cys Ala Gly Pro Ala Thr Val Pro  
 85 90 95

Pro Ser Gly Ser Ser Phe Ser Phe Ser Asp Ser Trp Ala Arg Cys Val  
 100 105 110

5689

His Leu Ala Pro Cys  
115

&lt;210&gt; 6442

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

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&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 5690

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 Val Lys Ser Gly Xaa Tyr Val Val Ile Glu Val Lys Val Ala Xaa Xaa  
   1                  5                  10                  15  
 Tyr Gly Ile Xaa Ile Thr Cys Xaa Xaa Tyr Leu Met Thr Xaa Tyr Gln  
           20                  25                  30  
 Xaa Ala Pro Pro Ser Pro Gln Tyr Arg Xaa Ile Ile Cys Met Gly Ala  
           35                  40                  45  
 Xaa Xaa Asn Gly Leu Pro Leu Xaa Tyr Gln Xaa Xaa Leu Xaa Ala Leu  
   50                  55                  60

## 5691

Xaa Pro Asn Asp Tyr Thr  
65 70

<210> 6443

<211> 80

<212> PRT

<213> Homo sapiens

<220>

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## 5692

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&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (73)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6443

Leu	Phe	Lys	Met	Gln	Ile	Val	Ala	Cys	Gly	Glu	Gly	Pro	Gly	Leu	Ser
1				5					10					15	

Arg	Glu	Arg	Xaa	Gly	Xaa	Xaa	Phe	Ser	Gln	Pro	Gly	Arg	Ser	Xaa	Xaa
			20					25					30		

Gly	Ala	Phe	Xaa	Met	Cys	Lys	Gly	Gly	Val	Gln	Ala	Pro	Gly	Gly	Val
		35					40					45			

Leu	Ala	Val	Ser	Phe	Phe	Leu	Xaa	Gly	Asp	Gly	Xaa	Gly	Val	Arg	Xaa
		50				55					60				

Gly	Ala	Asp	Ala	Leu	Ala	Cys	Glu	Xaa	Glu	Leu	Glu	Lys	Cys	Arg	Cys
65					70					75					80

&lt;210&gt; 6444

&lt;211&gt; 129

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6444

Lys	Glu	Leu	Glu	Leu	Tyr	Lys	Glu	Glu	Leu	Gln	Thr	Lys	Pro	Ala	Leu
1				5					10					15	

Leu	Ala	Val	Asn	Lys	Met	Asp	Leu	Pro	Asp	Ala	Gln	Asp	Lys	Phe	His
			20					25					30		

Glu	Leu	Met	Ser	Gln	Leu	Gln	Asn	Pro	Lys	Asp	Phe	Leu	His	Leu	Phe
		35					40					45			

Glu	Lys	Asn	Met	Ile	Pro	Glu	Arg	Thr	Val	Glu	Phe	Gln	His	Ile	Ile
		50				55					60				

Pro	Ile	Ser	Ala	Val	Thr	Gly	Glu	Gly	Ile	Glu	Glu	Leu	Lys	Asn	Cys
65					70					75					80



## 5693

Ile Arg Lys Ser Leu Asp Glu Gln Ala Asn Gln Glu Asn Asp Ala Leu  
                             85                            90                            95

His Lys Lys Gln Leu Leu Asn Leu Trp Ile Ser Asp Thr Met Ser Ser  
                             100                            105                            110

Thr Glu Pro Pro Ser Lys His Ala Val Thr Thr Ser Lys Met Asp Ile  
                             115                            120                            125

Ile

<210> 6445

<211> 135

<212> PRT

<213> Homo sapiens

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## 5694

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<400> 6445  
Leu Arg Gln Ala Leu Ile Arg Leu Thr Ile Xaa Xaa Xaa Trp Tyr Ala  
1 5 10 15  
Cys Arg Tyr Arg Ala Gly Ile Xaa Gly Ser Thr His Ala Ser Ala Gly  
20 25 30  
Glu Arg Pro Phe Glu Cys Ile Glu Cys Gly Lys Ala Phe Ser Asn Gly  
35 40 45  
Ser Xaa Leu Ala Gln His Gln Arg Ile His Thr Gly Glu Lys Pro Xaa  
50 55 60

## 5695

Val Xaa Asn Val Xaa Xaa Lys Ala Phe Ser His Arg Gly Tyr Leu Ile  
65 70 75 80

Val His Gln Arg Ile His Thr Gly Glu Arg Pro Tyr Glu Cys Lys Glu  
85 90 95

Cys Xaa Lys Ala Phe Xaa Gln Tyr Ala His Leu Ala Gln His Gln Arg  
100 105 110

Val His Thr Gly Glu Xaa Pro Tyr Glu Cys Lys Val Leu Xaa Glu Ser  
115 120 125

Leu Gln Xaa Asn Cys Ile Pro  
130 135

<210> 6446

<211> 138

<212> PRT

<213> Homo sapiens

<220>

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## 5697

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## 5698

<220>  
 <221> SITE  
 <222> (120)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (121)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (122)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (128)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6446  
 Lys Trp Leu Pro Pro Lys Phe Pro Xaa Lys Arg Xaa Gly Xaa Leu Ile  
     1                    5                    10                    15  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ile Xaa Xaa Pro Xaa Xaa Xaa Xaa Tyr  
                     20                    25                    30  
 Gly Xaa Ala Trp Xaa Xaa Pro Xaa Trp Asn Xaa Pro Xaa Phe Cys Pro  
           35                    40                    45  
 Xaa Ile Asn Val Leu Leu Ala Xaa Asn Leu Ser Pro Arg Pro Leu Pro  
       50                    55                    60  
 Arg Lys Val Pro Pro Xaa Xaa Val Gly Gly Asn Leu Val Ala Ile Leu  
       65                    70                    75                    80  
 Thr Ala Ala Asn Leu Lys Ser Val Asn Leu Val Ala Asn Phe Asn Thr  
                     85                    90                    95  
 Leu Phe Val Leu Val Gln Ile Ser Ile Met Val Val Phe Ile Phe Leu  
           100                    105                    110  
 Val Val Gln Gly Leu His Lys Xaa Xaa Xaa Leu Ala Pro Ser Gly Xaa  
       115                    120                    125  
 Phe Ser Arg Leu Ser Ala Arg Thr Arg Thr  
       130                    135

<210> 6447

## 5699

<211> 197  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (141)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (162)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (164)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (181)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (189)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (190)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (193)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (194)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6447  
Ala Asp Ala Trp Val Leu Val Val Phe Lys Ala Pro Arg Ala Asp Ser  
1 5 10 15

His Gly Pro Gly Cys Arg Pro Pro Leu Cys Pro Gly Leu Val Ala Tyr  
20 25 30

## 5700

Val Asp Leu Asp Glu Arg Ala Ile Asp Ala Leu Arg Glu Phe Asn Glu  
           35                          40                          45  
 Glu Gly Ala Leu Ser Val Leu Gln Gln Phe Lys Glu Ser Asp Leu Ser  
           50                          55                          60  
 His Val Gln Asn Lys Ser Ala Phe Leu Cys Gly Val Met Lys Thr Tyr  
           65                          70                          75                          80  
 Arg Gln Arg Glu Lys Gln Gly Ser Lys Val Gln Glu Ser Thr Lys Gly  
                           85                          90                          95  
 Pro Asp Glu Ala Lys Ile Lys Ala Leu Leu Glu Arg Thr Gly Tyr Thr  
                           100                          105                          110  
 Leu Asp Val Thr Thr Gly Gln Arg Lys Tyr Gly Gly Pro Ser Pro Asp  
           115                          120                          125  
 Ser Val Tyr Ser Gly Val Gln Pro Gly Ile Gly Thr Xaa Val Phe Val  
           130                          135                          140  
 Gly Lys Ile Pro Arg Asp Leu Tyr Glu Asp Glu Leu Val Pro Leu Phe  
           145                          150                          155                          160  
 Glu Xaa Ala Xaa Pro Ile Trp Asp Leu Arg Leu Met Met Asp Pro Leu  
                           165                          170                          175  
 Ser Gly Arg Ile Xaa Gly Met His Leu Ser Pro Ser Xaa Xaa Lys Glu  
                           180                          185                          190  
 Xaa Xaa Arg Lys Pro  
           195

&lt;210&gt; 6448

&lt;211&gt; 65

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6448

Tyr Thr Leu Leu Glu Leu Glu Leu Pro Arg Leu Leu Ala Pro Asp Leu  
   1                          5                          10                          15  
 Pro Ser Asn Gly Ser Ser Leu Lys Asp Leu Lys Trp Thr His Ser Asn  
           20                          25                          30  
 Tyr Arg Ala Ser Lys Glu Ser Cys Ile Val Ile Phe Arg His Tyr Leu  
           35                          40                          45  
 Pro Gly Ser Gly Val Gly Asn Leu Arg Ala Cys Cys Leu Pro Trp Met



## 5701

50

55

60

Trp

65

&lt;210&gt; 6449

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6449

Ile Trp His Glu Ala Thr Pro Thr Gly Gly Gly Xaa Met Ala Arg Thr

1

5

10

15

Trp Lys Pro Thr Leu Val Ile Leu Xaa Ile Lys Arg Ala Gly Arg Cys

20

25

30

Xaa Arg Trp Xaa Pro Asn Glu Asn Lys Val Ala Val Gly Asn Gly Ser

35

40

45

## 5702

Xaa Glu Xaa Ser Ile Trp Tyr Phe Gln Gln Gly Glu  
           50                          55                          60

<210> 6450

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6450

Asp Phe Xaa Gln Met Leu Gln Glu Ile Gln Glu Val Lys Thr Pro Glu  
      1                          5                          10                          15

Glu Leu Glu Thr Phe Met Leu Lys His Gly Glu Asn Ile Ile Asp Thr  
                           20                          25                          30

Leu Gly Ala Glu Val Asp Arg Leu Glu Lys Glu Leu Lys Val Arg Cys  
           35                          40                          45

Ile His Lys Asn Asn Ile Met Ile Met Ala Ala Ile Phe Leu Ser Thr  
      50                          55                          60

Tyr Ser Thr Ala Asp Thr Lys Cys Ile His His Met His Ala Leu Thr  
      65                          70                          75                          80

His Ser

<210> 6451

<211> 164

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5703

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (64)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (79)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (92)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (107)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (110)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (123)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 5704

&lt;400&gt; 6451

Xaa His His Leu Tyr Arg Ala Tyr Ser Phe Xaa Met Gly Cys Trp Pro  
 1 5 10 15

Lys Asn Gly Leu Leu Xaa Met Asn Lys Gly Leu Ser Leu Gln His Ile  
 20 25 30

Gly Arg Pro His Thr Gly Ile Asp Asp Cys Lys Lys His Cys Xaa His  
 35 40 45

His Glu Xaa Thr Arg Leu Ser Arg Leu His Leu Gln Ala Asp Ile Xaa  
 50 55 60

Xaa Val Leu Ile Gly Pro Arg Gln Asp Gly Ala Arg Gln Gly Xaa Cys  
 65 70 75 80

Leu Ala His Pro Lys Ser Ser Ser Pro Ser Pro Xaa Gly Lys Lys Glu  
 85 90 95

Asn Gly Ile Leu Cys Val Gln Asn Val Pro Xaa Ala Cys Xaa Leu Cys  
 100 105 110

Pro Trp Arg Trp Leu Phe Pro Cys Lys Gly Xaa Ala Leu Gly Pro Ser  
 115 120 125

Gly Thr Lys Leu Phe Ser Pro His Pro Thr Leu Ile Ser Pro Ser Ile  
 130 135 140

Thr Pro Pro Leu Arg Ala Gly Leu Gly Glu Pro Gly Ser Pro Leu Ser  
 145 150 155 160

Leu Phe Thr Gly

&lt;210&gt; 6452

&lt;211&gt; 107

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (66)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6452

Val Val Ser Lys Val Cys Val Trp Pro Gly Val His Pro Leu Pro Ser  
 1 5 10 15

Ser Pro Ala Pro Glu His Ser Cys Ser Ala Arg Pro His Ser Ser Ala

## 5705

20 25 30

Leu Leu Pro Ile Pro Thr Arg Arg Arg Cys Pro Gly Pro Val Cys Ala  
35 40 45

Ala His Val Asp Trp Glu Gly Arg Ala Gly Ala Gly Leu Gly Ala Arg  
50 55 60

Ala Xaa Ala Val Phe Ser Phe Leu His Ser Arg Arg Ala Gly Gly Trp  
65 70 75 80

Gly Cys Phe Pro Ala Arg Pro Gln Gly Gln Ala Pro Trp Gly Phe Ile  
85 90 95

Arg Gly Leu Glu Gly Trp Gly Gln Lys Gln Ala  
100 105

<210> 6453

<211> 114

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

## 5706

&lt;222&gt; (108)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (110)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6453

Glu	Gly	Lys	Gly	Leu	Glu	Gly	Pro	Leu	Asp	Leu	Ile	Asn	Tyr	Ile	Asp
1				5				10						15	

Val	Ala	Gln	Gln	Asp	Gly	Lys	Leu	Pro	Phe	Val	Pro	Pro	Glu	Glu	Glu
			20					25					30		

Phe	Ile	Met	Gly	Val	Ser	Lys	Tyr	Gly	Ile	Lys	Val	Ser	Thr	Ser	Asp
		35					40					45			

Gln	Tyr	Asp	Val	Leu	His	Arg	His	Ala	Leu	Tyr	Leu	Ile	Ile	Arg	Met
	50					55					60				

Val	Cys	Tyr	Asp	Asp	Gly	Leu	Gly	Ala	Gly	Lys	Ser	Leu	Leu	Ala	Leu
65					70					75					80

Lys	Thr	Thr	Asp	Ala	Ser	Xaa	Glu	Glu	Tyr	Arg	Leu	Trp	Val	Tyr	Xaa
				85					90					95	

Val	Gln	Xaa	Xaa	Gly	Thr	Xaa	Thr	Ser	His	Leu	Xaa	Gly	Xaa	Ile	His
			100					105					110		

Arg Phe

&lt;210&gt; 6454

&lt;211&gt; 95

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (75)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (80)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 5707

&lt;221&gt; SITE

&lt;222&gt; (81)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (82)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6454

Leu	Leu	Gly	Pro	Gly	Lys	Pro	Trp	Ser	Pro	Ser	Pro	Gln	Pro	Pro	Pro
1				5					10					15	

Arg	Ala	His	Arg	Ser	Ser	Pro	Trp	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser
			20					25					30		

Gly	Gly	Thr	Arg	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu
		35					40					45			

Pro	Val	Arg	Phe	Leu	Gly	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	Ser
	50					55					60				

His	Leu	Pro	Gly	Cys	Ser	Tyr	Ser	Pro	Gln	Xaa	Ser	Thr	Pro	Ser	Xaa
65					70					75					80

Xaa	Xaa	Leu	Thr	Val	Pro	Ser	Gln	Lys	Leu	Gly	Asp	Gln	Lys	Leu	
			85						90					95	

&lt;210&gt; 6455

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (92)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6455

Ala	Pro	Phe	Arg	Gly	Pro	Lys	Asp	Arg	Ala	Arg	Lys	Leu	Ala	Glu	Val
1				5					10					15	

Gly	Ser	His	Glu	Lys	Val	Gly	Gln	Xaa	Pro	Cys	Cys	Val	Arg	Leu	Glu
			20				25						30		

## 5708

Gln Ala Trp Glu Glu Gly Gly Ile Leu Tyr Leu Gln Thr Glu Leu Cys  
           35                                  40                                  45  
 Gly Pro Ser Leu Gln Gln His Cys Glu Ala Trp Gly Ala Ser Leu Pro  
           50                                  55                                  60  
 Glu Ala Gln Val Trp Gly Tyr Leu Arg Asp Thr Leu Leu Ala Leu Ala  
   65                                  70                                  75                                  80  
 His Leu His Ser Gln Gly Leu Val His Leu Asp Xaa Gln Ala Cys Gln  
                                   85                                  90                                  95  
 His Leu Pro Gly Ala Pro Gly Pro Leu Gln Ala Gly  
                   100                                  105

&lt;210&gt; 6456

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6456

Gly Gly Leu Asn Gln Thr Gln Leu Arg Lys Ile Leu Ala Tyr Ser Ser  
   1                                  5                                  10                                  15

Ile Thr His Ile Gly  
                   20

&lt;210&gt; 6457

&lt;211&gt; 128

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6457

Arg Arg Ala Met Ala Asp Glu Glu Leu Glu Ala Leu Arg Arg Gln Arg  
   1                                  5                                  10                                  15

Leu Ala Glu Leu Gln Ala Lys His Gly Asp Pro Gly Asp Ala Ala Gln  
                   20                                  25                                  30

Gln Glu Ala Lys His Arg Glu Ala Glu Met Arg Asn Ser Ile Leu Ala  
                   35                                  40                                  45

Gln Val Leu Asp Gln Ser Ala Arg Ala Arg Leu Ser Asn Leu Ala Leu  
                   50                                  55                                  60

Val Lys Pro Glu Lys Thr Lys Ala Val Glu Asn Tyr Leu Ile Gln Met



65					70					75					80
Ala	Arg	Tyr	Gly	Gln	Leu	Ser	Glu	Lys	Val	Ser	Glu	Gln	Gly	Leu	Ile
				85					90					95	
Glu	Ile	Leu	Lys	Lys	Val	Ser	Gln	Gln	Thr	Glu	Lys	Thr	Thr	Thr	Val
			100					105					110		
Lys	Val	Ser	Val	Pro	Arg	Cys	Leu	Trp	Gln	Met	Lys	Arg	Trp	Ile	Leu
		115					120					125			

<400> 6458																
Glu	Val	Thr	Thr	Phe	Gln	Leu	Ala	Val	Leu	Phe	Ala	Trp	Asn	Gln	Arg	
1				5					10					15		
Pro	Arg	Glu	Lys	Ile	Ser	Phe	Glu	Asn	Leu	Lys	Leu	Ala	Thr	Glu	Leu	
			20					25					30			
Pro	Asp	Ala	Glu	Leu	Arg	Arg	Thr	Leu	Trp	Ser	Leu	Val	Ala	Phe	Pro	
		35					40					45				
Lys	Leu	Lys	Arg	Gln	Val	Leu	Leu	Tyr	Glu	Pro	Gln	Val	Asn	Ser	Pro	
	50					55					60					
Lys	Asp	Phe	Thr	Glu	Gly	Thr	Leu	Phe	Ser	Val	Asn	Gln	Glu	Phe	Ser	
65					70					75					80	
Leu	Ile	Lys	Asn	Ala	Lys	Val	Gln	Lys	Arg	Gly	Lys	Ile	Asn	Leu	Ile	
			85						90					95		
Gly	Arg	Leu	Gln	Leu	Thr	Thr	Glu	Arg	Met	Arg	Glu	Glu	Glu	Asn	Glu	
			100					105					110			
Gly	Ile	Val	Gln	Leu	Arg	Ile	Leu	Arg	Thr	Gln	Glu	Ala	Ile	Ile	Gln	
		115					120					125				
Ile	Met	Lys	Met	Arg	Lys	Lys	Ile	Ser	Asn	Ala	Gln	Leu	Gln	Thr	Glu	
	130					135					140					
Leu	Val	Glu	Ile	Leu	Lys	Asn	Met	Phe	Leu	Pro	Gln	Lys	Glu	Met	Ile	
145					150					155					160	

## 5710

Lys Val Gln

<210> 6459

<211> 175

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (148)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6459

Asp	Asp	Arg	Leu	Arg	Glu	Glu	Arg	Ala	His	Ala	Leu	Lys	Thr	Lys	Glu
1				5					10					15	

Lys	Leu	Ala	Gln	Thr	Ala	Thr	Ala	Ser	Ser	Ala	Ala	Val	Gly	Ser	Gly
			20					25					30		

Pro	Pro	Pro	Glu	Ala	Glu	Gln	Ala	Trp	Pro	Gln	Ser	Ser	Gly	Glu	Glu
		35					40					45			

Glu	Leu	Gln	Leu	Gln	Leu	Ala	Leu	Ala	Met	Ser	Lys	Glu	Glu	Ala	Asp
	50				55						60				

Gln	Pro	Pro	Ser	Cys	Gly	Pro	Glu	Asp	Asp	Ala	Gln	Leu	Gln	Leu	Ala
65					70					75					80

Leu	Ser	Leu	Ser	Arg	Glu	Glu	His	Asp	Lys	Glu	Glu	Arg	Ile	Arg	Arg
				85					90					95	

Gly	Asp	Asp	Leu	Arg	Leu	Gln	Met	Ala	Ile	Glu	Glu	Ser	Lys	Arg	Glu
			100					105					110		

Thr	Gly	Gly	Lys	Glu	Glu	Ser	Ser	Leu	Met	Asp	Leu	Ala	Asp	Val	Phe
			115					120					125		

## 5711

Thr Gly Pro Ala Ser Ala Arg Pro Gln Thr Pro Gly Gly Ala His Thr  
 130 135 140

His Gly Leu Xaa Pro Ser His Gly Leu Pro Asn Leu Asp Pro Trp Gly  
 145 150 155 160

Gly Pro Pro Val Pro Ser Xaa Ala Xaa Ser Pro Gly Glu Gly Ser  
 165 170 175

<210> 6460

<211> 71

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6460

Ala Xaa Ala Ser Asp Leu Asn Asp Ile Tyr Glu Glu Glu Pro Phe Asn  
 1 5 10 15

Phe Gln Met Val Tyr Asn Glu Phe Gln Lys Phe Val Gln Arg Lys Ala  
 20 25 30

His Ser Val Tyr Asn Phe Glu Lys Pro Val Val Met Lys Ala Phe Glu  
 35 40 45

His Leu Gln Gln Leu Glu Leu Ile Lys Pro Met Glu Arg Thr Ser Gly  
 50 55 60

Asn Ser Gln Arg Glu Ser Ser  
 65 70

<210> 6461

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

## 5712

&lt;222&gt; (66)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (74)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6461

Leu	Val	Pro	Asn	Ser	Ala	Arg	Val	Trp	Thr	Asn	Pro	Gln	Ile	Lys	Leu
1				5					10					15	

Ser	Leu	Thr	Glu	Lys	Asp	Glu	Gly	Gln	Glu	Glu	Cys	Ser	Phe	Leu	Val
			20					25					30		

Ala	Leu	Met	Gln	Lys	Asp	Arg	Arg	Lys	Leu	Lys	Arg	Phe	Gly	Ala	Asn
		35					40					45			

Val	Leu	Thr	Ile	Gly	Tyr	Ala	Ile	Tyr	Asn	Cys	Pro	Asn	Lys	Asn	Lys
	50					55					60				

Xaa	Xaa	Asn	Lys	Asn	Pro	Pro	Asn	Pro	Xaa	Ser	Leu
65					70					75	

&lt;210&gt; 6462

&lt;211&gt; 127

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (108)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5713

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (115)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6462

Xaa	Thr	Thr	Xaa	Xaa	Gly	Lys	Ala	Gly	Thr	Pro	Ala	Gly	Thr	Gly	Pro
1				5					10					15	

Glu	Phe	Pro	Gly	Arg	Pro	Thr	Arg	Pro	Lys	Ala	Leu	Lys	Arg	Gly	Ser
			20					25					30		

Leu	Leu	Gly	Cys	Phe	Ile	Asp	Thr	Arg	Ser	Ala	Ala	Glu	Ser	Glu	Ala
		35					40					45			

Arg	Thr	Pro	Phe	Gly	Leu	Ile	Lys	Gly	His	Ala	Tyr	Ser	Val	Thr	Gly
	50					55					60				

Ile	Asp	Gln	Val	Ser	Phe	Arg	Gly	Gln	Arg	Ile	Glu	Leu	Ile	Arg	Ile
65					70					75					80

Arg	Asn	Pro	Trp	Gly	Gln	Val	Glu	Trp	Asn	Gly	Ser	Trp	Ser	Asp	Ser
				85					90					95	

Ser	Pro	Glu	Trp	Arg	Ser	Val	Val	Gln	Leu	Ser	Xaa	Ser	Val	Cys	Val
		100						105					110		

Thr	Leu	Xaa	Trp	Met	Met	Gly	Asn	Ser	Gly	Trp	His	Leu	Arg	Thr	
		115					120					125			

&lt;210&gt; 6463

&lt;211&gt; 152

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (134)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (146)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6463

Val	Leu	Thr	Leu	Gln	Gly	Asp	Ala	Leu	Ser	Gln	Ala	Asp	Val	Asn	Leu
1				5					10					15	

## 5714

Lys Met Pro Arg Asn Asn Gln Leu Leu His Phe Ala Phe Arg Glu Asp  
20 25 30

Lys Gln Trp Lys Leu Gln Gln Ile Gln Asp Ala Arg Asn His Val Ser  
35 40 45

Gln Ala Ile Tyr Leu Leu Thr Ser Arg Asp Gln Ser Tyr Gln Phe Lys  
50 55 60

Thr Gly Ala Glu Val Leu Lys Leu Met Asp Ala Val Met Leu Gln Leu  
65 70 75 80

Thr Arg Ala Arg Asn Arg Leu Thr Thr Pro Ala Thr Leu Thr Leu Pro  
85 90 95

Glu Ile Ala Ala Ser Gly Leu Thr Arg Met Phe Ala Pro Ala Leu Pro  
100 105 110

Ser Asp Leu Leu Val Asn Val Tyr Ile Asn Leu Asn Lys Leu Cys Leu  
115 120 125

Thr Val Tyr Gln Leu Xaa Ala Leu Gln Pro Asn Phe Thr Lys Asn Phe  
130 135 140

Ala Xaa Trp Gly Arg Gly Ala Ala  
145 150

<210> 6464

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

## 5715

<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6464  
Ser Arg Arg Xaa Met Ala Val Leu Ser Xaa Glu Tyr Gly Phe Val Leu  
1 5 10 15  
Leu Thr Gly Ala Ala Ser Phe Xaa Met Val Xaa Xaa Leu Ala Xaa Asn  
20 25 30  
Val Ser Lys Ala Arg Lys Lys Tyr Lys Xaa Glu Trp Thr Leu Pro Leu  
35 40 45  
Xaa Phe Ser His Thr Gln Phe Leu Phe Phe Tyr  
50 55

<210> 6465  
<211> 99  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (15)

## 5716

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids



## 5717

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (96)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (98)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6465

Ala	His	Ala	Ser	Xaa	Leu	Pro	Ser	Leu	Arg	Pro	Glu	Ala	Ala	Xaa	Gln
1				5					10					15	

Leu	Leu	Arg	Ser	Xaa	Pro	Lys	Val	Cys	Val	Thr	Val	Leu	Pro	Pro	Asp
			20					25					30		

Glu	Ser	Gly	Arg	Pro	Arg	Arg	Ser	Phe	Ser	Glu	Leu	Tyr	Thr	Leu	Ser
		35					40					45			

Leu	Gln	Xaa	Pro	Ser	Xaa	Arg	Gly	Ala	Pro	Asp	Xaa	Val	Gln	Asp	Glu
	50					55					60				

Val	Xaa	Gly	Val	Thr	Leu	Leu	Ser	Thr	Xaa	Xaa	Gln	Xaa	Leu	His	Leu
65					70					75					80

Cys	Leu	Gln	Asp	Gly	Gly	Lys	Ser	Ser	Xaa	Ala	Trp	Xaa	Ser	Gly	Xaa
				85					90					95	

Gly Xaa Asp

&lt;210&gt; 6466

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6466

Pro	Thr	Arg	Xaa	Glu	Pro	Gln	Lys	Val	Ser	Thr	Leu	Gly	Lys	Ser	Asn
1				5					10					15	

Val	Ile	Val	Thr	Gly	Ala	Asn	Phe	Thr	Arg	Ala	Ser	Asn	Ile	Thr	Met
			20					25					30		

## 5718

Ile Leu Lys Gly Thr Ser Thr Cys Asp Lys Asp Val  
35 40

<210> 6467

<211> 177

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5719

<220>  
 <221> SITE  
 <222> (154)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (157)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (167)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (168)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6467  
 Gly Xaa Thr Thr Xaa His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr  
 1 5 10 15  
 Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Asp Ala Trp Val  
 20 25 30  
 Gly Met Gln Leu Asp Arg Ala Ser Ser Ser Leu Tyr Val Ala Phe Ser  
 35 40 45  
 Thr Cys Val Ile Lys Val Pro Leu Gly Arg Cys Glu Arg His Gly Lys  
 50 55 60  
 Cys Lys Lys Thr Cys Ile Ala Xaa Arg Asp Pro Tyr Cys Gly Trp Ile  
 65 70 75 80  
 Lys Glu Gly Gly Ala Cys Ser His Xaa Ser Pro Asn Ser Arg Leu Thr  
 85 90 95  
 Phe Glu Gln Asp Ile Glu His Gly Asn Thr Asp Gly Leu Gly Asp Cys  
 100 105 110  
 His Asn Xaa Phe Val Ala Leu Asn Gly His Ser Ser Xaa Leu Leu Pro  
 115 120 125  
 Ser Thr Thr Thr Ser Asp Ser Thr Ala Gln Glu Gly Tyr Glu Thr Xaa  
 130 135 140  
 Gly Gly Met Leu Asp Trp Lys His Xaa Xaa Asp Ser Xaa Asp Ser Thr  
 145 150 155 160

## 5720

Asp Pro Leu Gly Ala Arg Xaa Xaa His Asn His Gln Arg Gln Glu Gly  
165 170 175

Ser

```
<210> 6468
<211> 99
<212> PRT
<213> Homo sapiens
```

```
<400> 6468
Met Gly Ala Val Gln Gln Phe Asn Leu Asp Val Ile Gln Cys Glu Leu
   1             5          10           15
Phe Ala Ser Ser Glu Pro Val Pro Gly Phe Gln Gly Asp Thr Leu Gln
    20         25       30
Leu Ala Phe Ile Asp Leu Arg Gln Leu Leu Asp Leu Phe Met Val Trp
    35         40       45
Asp Trp Ser Thr Tyr Leu Ala Asp Tyr Gly Gln Pro Ala Ser Lys Tyr
    50         55       60
Leu Arg Val Asn Pro Asn Thr Ala Leu Thr Leu Leu Glu Lys Met Lys
    65         70       75           80
Asp Thr Ser Lys Lys Asn Asn Ile Phe Ala Gln Phe Arg Lys Asn Asp
    85         90           95
Arg Asp Lys
```

```
<210> 6469
<211> 30
<212> PRT
<213> Homo sapiens
```

```

<400> 6469
Ile Gln Val Ser Val Leu Thr Asp Gln Val Glu Ala Gln Gly Glu Lys
 1             5             10             15
Ile Arg Asp Leu Glu Phe Cys Leu Lys Ser Thr Glu Arg Ser
      20             25             30

```

## 5721

&lt;210&gt; 6470

&lt;211&gt; 116

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6470

Lys	Leu	Pro	Leu	Lys	Ala	Lys	Met	Gly	Lys	Glu	Lys	Thr	His	Ile	Asn
1				5					10					15	

Ile	Val	Val	Ile	Gly	His	Val	Asp	Ser	Gly	Lys	Ser	Thr	Thr	Thr	Gly
			20					25					30		

His	Leu	Ile	Tyr	Lys	Cys	Gly	Gly	Ile	Asp	Lys	Arg	Thr	Ile	Glu	Lys
		35					40					45			

Phe	Glu	Lys	Glu	Ala	Ala	Glu	Met	Gly	Lys	Gly	Ser	Phe	Lys	Tyr	Ala
	50					55					60				

Trp	Val	Leu	Asp	Lys	Leu	Lys	Ala	Glu	Arg	Glu	Arg	Gly	Ile	Thr	Ile
65					70					75					80

Asp	Ile	Ser	Leu	Trp	Lys	Phe	Glu	Thr	Ser	Lys	Tyr	Tyr	Val	Thr	Ile
				85					90					95	

Ile	Asp	Ala	Pro	Gly	His	Arg	Asp	Phe	Ile	Lys	Asn	Met	Ile	Thr	Gly
			100					105					110		

Thr	Ser	Gln	Ala
		115	

&lt;210&gt; 6471

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6471

Glu	Lys	Pro	Tyr	Gly	Ile	Val	Glu	Lys	Lys	Ser	Arg	Ile	Phe	Pro	Gly
1				5					10					15	

Asp	Thr	Ile	Leu	Glu	Thr	Gly	Glu	Val	Ile	Pro	Pro	Met	Lys	Glu	Phe
			20					25					30		

Pro	Asp	Gln	His	His
		35		

&lt;210&gt; 6472

&lt;211&gt; 89

## 5722

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (74)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (79)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (81)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6472

Ala	Gly	Ala	Asp	Gly	Gly	Ser	Ala	Ala	Cys	Ser	Trp	Lys	Phe	Arg	Leu
1				5					10					15	

Gly	Cys	Leu	Leu	Gly	Ala	Met	Glu	Ser	Asp	Phe	Tyr	Leu	Arg	Tyr	Tyr
		20					25					30			

Val	Gly	His	Lys	Gly	Lys	Phe	Gly	His	Glu	Phe	Leu	Glu	Phe	Glu	Phe
		35				40					45				

Arg	Pro	Asp	Gly	Lys	Leu	Arg	Tyr	Ala	Asn	Ser	Ala	Ala	Ala	Xaa	Ser
	50				55					60					

Met	Cys	Ser	Gly	Phe	Xaa	Gly	His	Gly	Xaa	Thr	Gly	Gln	Ser	Xaa	Glu
65					70				75						80

Xaa	Leu	Arg	Val	Trp	Gln	Trp	Asn	Phe
				85				

&lt;210&gt; 6473

&lt;211&gt; 96

## 5723

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (90)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6473

Ala	Xaa	Gln	Arg	Ala	Val	Tyr	Asp	Glu	Gln	Gly	Thr	Val	Asp	Glu	Asp
1				5					10					15	

Ser	Pro	Val	Leu	Thr	Gln	Asp	Arg	Asp	Trp	Glu	Ala	Tyr	Trp	Arg	Leu
			20					25					30		

Leu	Phe	Lys	Lys	Ile	Ser	Leu	Glu	Asp	Ile	Gln	Ala	Phe	Glu	Lys	Thr
		35						40				45			

Tyr	Lys	Gly	Ser	Glu	Glu	Glu	Leu	Ala	Asp	Ile	Lys	Gln	Ala	Tyr	Leu
	50					55					60				

Asp	Phe	Lys	Gly	Asp	Met	Asp	Gln	Ile	Met	Glu	Ser	Val	Leu	Cys	Val
65					70					75				80	

Gln	Tyr	Thr	Glu	Glu	Pro	Arg	Met	Lys	Xaa	Tyr	His	Ser	Ala	Ser	Tyr
				85					90					95	

&lt;210&gt; 6474

&lt;211&gt; 99

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5724

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (77)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (88)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (95)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6474

Lys	Glu	Ser	Thr	Leu	His	Leu	Val	Leu	Arg	Leu	Arg	Gly	Gly	Met	Gln
1				5					10					15	

Ile	Phe	Val	Lys	Thr	Leu	Thr	Gly	Lys	Thr	Ile	Thr	Leu	Glu	Xaa	Glu
			20					25					30		

Pro	Ser	Asp	Thr	Ile	Glu	Asn	Val	Glu	Ala	Lys	Ile	Gln	Asp	Lys	Glu
		35					40					45			

Gly	Ile	Pro	Pro	Asp	Gln	Xaa	Xaa	Leu	Ile	Phe	Ala	Gly	Lys	Gln	Leu
	50					55					60				

Glu	Asn	Gly	Arg	Xaa	Leu	Ser	Asp	Tyr	His	Ile	Gln	Xaa	Asp	Pro	Pro
65					70					75				80	

Cys	Thr	Trp	Cys	Ser	Val	Ser	Xaa	Val	Gly	Cys	Lys	Ser	Ser	Xaa	Arg
				85					90					95	

Pro Asp Trp

&lt;210&gt; 6475



## 5725

<211> 64  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (52)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (60)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6475  
 Gly Lys Leu Val Arg Leu Gln Val Pro Gly Arg Asn Ser Arg Val Asp  
     1                    5                    10                    15  
 Pro Arg Val Arg Gly Ser Glu Leu Ser Gly Xaa Ile Ser Ser Ala Cys  
                     20                    25                    30  
 Asp Xaa Glu Xaa Asn Met Glu Arg Arg Xaa Ile Thr Ile Ser Lys Ser  
           35                    40                    45  
 Glu Tyr Ser Xaa His Ser Ser Leu Ala Ser Lys Xaa Asp Val Glu Gln  
     50                    55                    60

## 5726

&lt;210&gt; 6476

&lt;211&gt; 82

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (67)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (75)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (76)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6476

Ala	Phe	Leu	Ala	Ser	Gly	Pro	Tyr	Leu	Thr	His	Gln	Gln	Lys	Val	Leu
1				5					10					15	

Arg	Leu	Tyr	Lys	Arg	Ala	Leu	Arg	His	Leu	Glu	Ser	Trp	Cys	Val	Xaa
			20					25					30		

Arg	Asp	Lys	Tyr	Arg	Tyr	Phe	Ala	Cys	Leu	Met	Arg	Ala	Arg	Phe	Glu
		35					40					45			

Glu	His	Lys	Asn	Glu	Lys	Asp	Met	Ala	Lys	Ala	Thr	Gln	Leu	Xaa	Asn
	50					55					60				

Glu	Ala	Xaa	Gly	Lys	Asn	Ser	Gly	Thr	Ala	Xaa	Xaa	Thr	Ala	Ile	His
65					70					75					80

Leu Pro

## 5727

&lt;210&gt; 6477

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6477

Ala Leu Leu Leu Gly Lys Lys Gly Ile Glu Lys Asn Leu Gly Ile Gly  
1 5 10 15

Lys Val Ser Ser Phe Glu Glu Lys Met Ile Ser Asp Ala Ile Pro Glu  
20 25 30

Leu Lys Ala Ser Ile Lys Lys Gly Glu Asp Phe Val Lys Thr Leu Lys  
35 40 45

&lt;210&gt; 6478

&lt;211&gt; 158

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (108)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (150)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6478

Arg Val Leu Ala Asp Ile Thr Lys Ser Leu Thr Asn Pro Thr Pro Ile  
1 5 10 15

Gln Gln Gln Leu Arg Arg Phe Thr Glu His Asn Ser Ser Pro Asn Val  
20 25 30

Ser Gly Ser Leu Ser Ser Gly Leu Gln Lys Ile Phe Xaa Asp Pro Thr  
35 40 45

## 5728

Asp Ser Asp Leu His Lys Leu Lys Ser Pro Ser Gln Asp Asn Thr Asp  
 50 55 60  
 Ser Tyr Phe Arg Gly Lys Thr Leu Leu Leu Val Gln Gln Ala Ser Ser  
 65 70 75 80  
 Gln Ser Met Thr Tyr Ser Glu Lys Asp Glu Arg Glu Ser Ser Leu Pro  
 85 90 95  
 Asn Gly Arg Ser Val Ser Leu Met Asp Leu Gln Xaa Thr His Ala Ala  
 100 105 110  
 Gln Val Glu His Ala Ser Val Met Leu Asp Val Pro Ile Arg Leu Thr  
 115 120 125  
 Gly Ser Gln Leu Ser Ile Thr Gln Val Ala Ser Ile Lys Gln Leu Arg  
 130 135 140  
 Glu Thr Gln Ser Thr Xaa Gln Ser Ala Pro Gln Val Arg Arg  
 145 150 155

&lt;210&gt; 6479

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

## 5729

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6479

Thr	Xaa	Xaa	Leu	Ser	Xaa	Ala	Phe	Xaa	Xaa	Glu	Asp	Pro	Gly	Leu	Arg
1				5					10					15	

Thr	Arg	Ala	Cys	Asp	Xaa	Ile	His	Ser	Ser	Ile	Val	Ala	Thr	Tyr	Xaa
		20						25					30		

Gln	Xaa	Thr	Gly	Arg	Arg	Ser	Thr	Thr	Ser	Thr	Thr	Gly	Lys	Thr	Leu
		35					40					45			

Glu	Leu	Pro	Asn	Leu	Xaa	Arg	Leu	Ala	Ala	His	Ala	Pro	Xaa	Xaa	Ser
	50					55					60				

Trp	Arg	Asn	Lys	Gly
65				

<210> 6480

## 5730

<211> 62  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6480  
Ser Gly His Ser Asn Tyr Met Val Asp Trp Tyr Gln Gln Arg Pro Gly  
1 5 10 15  
Lys Gly Pro Arg Phe Val Met Arg Val Gly Thr Ser Gly Val Val Gly  
20 25 30  
Pro Arg Gly Asp Gly Ile Pro Asp Arg Phe Ser Val Leu Ala Ser Gly  
35 40 45  
Leu Ser Arg Asp Leu Thr Ile Thr Asn Ile Gln Glu Arg Xaa  
50 55 60

<210> 6481  
<211> 62  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 5731

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (54)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6481

Ile	Lys	Arg	Val	Ser	Leu	Leu	Xaa	Asn	Pro	Pro	Thr	Val	Gly	Gly	Gly
1				5					10					15	

Thr	Leu	Lys	Leu	Thr	Asp	Val	His	Pro	Xaa	Ile	Leu	Glu	Pro	Thr	Ser
			20					25					30		

Ala	Xaa	Ser	Thr	Thr	His	Pro	Xaa	Phe	Tyr	Pro	Asn	Xaa	Phe	Gly	Ala
		35					40					45			

Asn	Pro	Thr	Leu	Leu	Xaa	Leu	Phe	Pro	Pro	Xaa	Tyr	Pro	Leu
	50					55					60		

&lt;210&gt; 6482

&lt;211&gt; 118

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6482

Pro	Thr	Gly	Pro	Asp	Pro	Ala	Gly	Lys	Glu	Gly	Glu	Gly	Gly	Gln	Ala
1				5					10					15	

Gln	Cys	Ser	Arg	Glu	His	Ala	Gly	Asp	Pro	Trp	Phe	Gln	Ser	Pro	Ala
			20					25					30		

Gly	Ala	Ala	Thr	Lys	Pro	Ala	Leu	Lys	Ser	Glu	Glu	Lys	Thr	Pro	Ile
		35					40					45			

Lys	Lys	Pro	Gly	Asp	Gly	Arg	Lys	Val	Thr	Phe	Phe	Glu	Pro	Gly	Ser
	50					55					60				

Gly	Asp	Glu	Asn	Gly	Thr	Ser	Asn	Lys	Glu	Asp	Glu	Phe	Arg	Met	Pro
65					70					75					80

Tyr	Leu	Ser	His	Gln	Gln	Leu	Pro	Ala	Gly	Ile	Leu	Pro	Met	Val	Pro
				85					90					95	

## 5732

Glu Val Ala Gln Ala Val Gly Val Ser Gln Gly His His Thr Lys Asp  
100 105 110

Phe Thr Arg Ala Ala Pro  
115

<210> 6483

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE



## 5733

<222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (50)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (55)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (61)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (74)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (77)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (86)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 6483  
 Xaa Xaa Gly Xaa Pro Ala Gly Thr Arg Ser Gly Ile Pro Gly Ser Thr  
   1                  5                  10                  15  
  
 His Ala Pro Phe Xaa Xaa Xaa Gly Ala Ala Leu Xaa Ala Gly Gly Ile  
                   20                  25                  30  
  
 Trp Xaa Xaa Ile Asp Gly Ala Ser Phe Leu Lys Ile Phe Gly Pro Leu

5734

35					40					45					
Xaa	Xaa	Ser	Ala	Met	Gln	Xaa	Val	Asn	Val	Gly	Tyr	Xaa	Leu	Ile	Ala
50					55					60					
Ala	Gly	Val	Val	Val	Phe	Ala	Leu	Gly	Xaa	Leu	Gly	Xaa	Tyr	Gly	Ala
65					70					75					80
Lys	Thr	Glu	Ser	Lys	Xaa	Ala	Leu	Val	Thr	Tyr	Phe	Tyr	Ile	Leu	Leu
85					90					95					

<210> 6484

<211> 83

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

&lt;221&gt; SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6484

[illegible]

<210> 6485

<211> 94

&lt;212&gt; PRT

<213> Homo sapiens

## 5735

<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (20)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (74)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (82)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (93)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (94)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6485  
 Phe Asn Tyr Xaa Leu Asp Cys Leu Gly Asn Gly Arg Thr Glu Cys His  
 1 5 10 15  
 Cys Gly Ala Xaa Asn Cys Ser Gly Phe Leu Gly Val Arg Pro Lys Ser  
 20 25 30  
 Ala Cys Ala Xaa Thr Asn Glu Glu Lys Ala Lys Asn Ala Lys Leu Lys  
 35 40 45  
 Gln Lys Arg Arg Lys Ile Lys Thr Glu Pro Lys His Met His Glu Asp  
 50 55 60  
 Tyr Cys Phe Gln Cys Gly Asp Gly Gly Xaa Leu Val Met Cys Asp Lys  
 65 70 75 80

Lys Xaa Cys Pro Lys Tyr Thr Thr Phe Leu Leu Pro Xaa Xaa  
85 90

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

Gly Lys Arg Arg Asp Asp Gly Leu Ser Ala Ala Ala Arg Lys Gln Arg  
1 5 10 15

Asp Ser Glu Ile Met Gln Xaa Lys Gln Lys Lys Ala Asn Glu Lys Lys  
20 25 30

Glu Glu Pro Lys  
35

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

Arg Arg Gln Val Gly Ala Ala Ala Val Ala Met Thr Arg Gly Asn Gln  
1 5 10 15

Arg Glu Leu Thr Arg Gln Lys Asn Met Lys Lys Gln Ser Asp Ser Val  
20 25 30

Lys Gly Lys Arg Arg Asp Asp Gly Leu Ser Ala Ala Xaa Arg Lys Gln  
35 40 45

Arg Asp Ser Glu Ile Met Gln Gln Lys Gln Lys Lys Ala Asn Glu Lys  
50 55 60

## 5737

Lys Glu Glu Pro Lys  
65

<210> 6488

<211> 119

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6488

Arg Lys Xaa Leu Ile Gln Arg Leu Leu Met Lys Asp Pro Lys Lys Arg  
1 5 10 15

Leu Gly Cys Gly Pro Arg Asp Ala Asp Glu Ile Lys Glu His Leu Phe  
20 25 30

Phe Gln Lys Ile Asn Trp Asp Asp Leu Ala Ala Lys Lys Val Pro Ala  
35 40 45

Pro Phe Lys Pro Val Ile Arg Asp Glu Leu Asp Val Ser Asn Phe Ala  
50 55 60

Glu Glu Phe Thr Glu Met Asp Pro Thr Tyr Ser Pro Ala Ala Leu Pro  
65 70 75 80

Gln Ser Ser Glu Glu Ala Val Ser Gly Leu Phe Phe Val Ala Pro Ser  
85 90 95

Ile Leu Phe Lys Arg Asn Ala Ala Val Ile Asp Pro Leu Gln Phe His  
100 105 110

Met Gly Val Glu Arg Leu Glu  
115

<210> 6489

<211> 88

<212> PRT

<213> Homo sapiens

<400> 6489

Gln Arg Phe Phe Gly Glu Val Leu Leu Tyr Phe Gln Met Ser Gln Ser  
1 5 10 15

## 5738

Asp Asp Arg Asp Ser Lys Arg Asp Ser Leu Glu Glu Gly Glu Leu Arg  
                   20                  25                  30  
 Asp His Arg Met Glu Ile Thr Ile Arg Asn Ser Pro Tyr Arg Arg Glu  
                   35                  40                  45  
 Asp Ser Met Glu Asp Ile Ser Pro Gln Leu Pro Leu Leu Thr Arg Thr  
                   50                  55                  60  
 Ser Cys Pro Ser Cys Leu His Leu Ser Val Pro Leu Glu Trp Met Ala  
                   65                  70                  75                  80  
 Gly Gly Glu Val Glu Ala Asp Ser  
                                   85

&lt;210&gt; 6490

&lt;211&gt; 153

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6490

Glu Leu Ser Ser Val Val Ser Ser Ser Gly Thr Glu Gly Ala Ser Ser  
           1                  5                  10                  15  
 Leu Glu Lys Lys Glu Val Pro Gly Val Asp Phe Ser Ile Thr Gln Phe  
                   20                  25                  30  
 Val Arg Asn Leu Gly Leu Glu His Leu Met Asp Ile Phe Xaa Arg Glu  
                   35                  40                  45  
 Gln Ile Thr Leu Asp Val Leu Val Glu Met Gly His Lys Glu Leu Lys  
           50                  55                  60  
 Glu Ile Gly Ile Asn Ala Tyr Gly His Arg His Lys Leu Ile Lys Gly  
           65                  70                  75                  80  
 Val Glu Arg Leu Ile Ser Gly Gln Gln Gly Leu Asn Pro Tyr Leu Thr  
                   85                  90                  95  
 Leu Asn Thr Ser Gly Ser Gly Thr Ile Leu Ile Asp Leu Ser Pro Asp  
                   100                  105                  110  
 Asp Lys Glu Phe Gln Ser Val Glu Glu Glu Met Gln Ser Thr Val Arg  
           115                  120                  125

## 5739

Glu His Arg Asp Gly Gly His Ala Gly Gly Ile Phe Asn Arg Tyr Asn  
 130 135 140

Ile Leu Lys Ile Gln Lys Val Cys Asn  
 145 150

<210> 6491

<211> 129

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6491

Val Gln Ser Gly Ala Glu Xaa Lys Xaa Ser Gly Glu Ser Leu Ser Ile  
 1 5 10 15

Ser Cys Gln Val Ser Gly Tyr Thr Leu Thr Ser Tyr Trp Ile Asn Trp  
 20 25 30

## 5740

Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met Gly Arg Leu Asp  
           35                                  40                                  45  
 Pro Ser Asp Ser Phe Ile Asn Tyr Asn Pro Ser Phe Glu Gly His Ile  
           50                                  55                                  60  
 Ser Ile Ser Ala Asp Lys Phe Ile Ser Thr Ala Tyr Leu Lys Trp Asn  
           65                                  70                                  75                                  80  
 Thr Leu Glu Ala Ser Asp Thr Ala Met Tyr Tyr Cys Ala Leu Ser Gly  
                                   85                                  90                                  95  
 Arg Gln Gln Leu Val Pro Val Tyr Trp Gly Gln Gly Thr Gln Val Xaa  
                                   100                                  105                                  110  
 Arg Leu Leu Xaa Asn Pro Xaa Gln Xaa Gln Arg Leu Ser Ala Glu Pro  
           115                                  120                                  125

Leu

<210> 6492

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)



## 5741

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5742

<220>  
 <221> SITE  
 <222> (79)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (82)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (84)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6492  
 Leu Xaa Lys Phe Ser Val Arg Phe Lys Glu Asn Ser Val Ala Val Lys  
 1 5 10 15  
 Val Val Gln Gly Pro Ala Gly Gly Asp Asn Xaa Lys Xaa Arg Tyr Lys  
 20 25 30  
 Lys Lys Gly Ser His Cys Leu Xaa Val Thr Xaa Gln Leu Gly Gly Gly  
 35 40 45  
 Thr Met Gln Arg Trp Xaa Xaa Leu Pro Pro Glu Pro Ala Leu Ile Xaa  
 50 55 60  
 Leu Xaa Pro Xaa Phe Phe Gly Gly Xaa Phe Xaa Xaa Xaa Xaa Gly  
 65 70 75 80  
 Gly Xaa Gly Xaa Gly Val  
 85

<210> 6493  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (10)  
 <223> Xaa equals any of the naturally occurring L-amino acids



## 5744

130

135

&lt;210&gt; 6495

&lt;211&gt; 131

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (108)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6495

Pro	Thr	Leu	Thr	Lys	Gly	Asn	Lys	Ser	Trp	Ser	Ser	Thr	Ala	Val	Xaa
1				5				10						15	

Ala	Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser	Ala	Arg
		20						25					30		

Gly	Lys	Leu	Asn	Lys	Met	Asp	Gly	Ser	Arg	Lys	Glu	Glu	Glu	Glu	Asp
	35						40					45			

Ser	Thr	Phe	Thr	Asn	Ile	Ser	Leu	Ala	Asp	Asp	Ile	Asp	His	Ser	Ser
	50					55					60				

Arg	Ile	Leu	Tyr	Pro	Arg	Pro	Lys	Ser	Leu	Leu	Pro	Lys	Met	Met	Asn
65					70					75					80

Ala	Asp	Met	Asp	Asp	Leu	Ser	Ala	Arg	Val	Asp	Ala	Val	Lys	Glu	Glu
				85					90					95	

Asn	Leu	Lys	Leu	Lys	Ser	Glu	Asn	Gln	Val	Leu	Xaa	Gln	Tyr	Ile	Glu
		100						105					110		

Asn	Leu	Met	Ser	Ala	Ser	Ser	Val	Phe	Gln	Thr	Thr	Asp	Thr	Lys	Ser
		115					120					125			

Lys	Arg	Lys
		130

&lt;210&gt; 6496

&lt;211&gt; 44

## 5745

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6496

Ile Asn Ile His Lys Cys Tyr Phe Leu Phe Leu Tyr Phe Ile Phe Phe  
1 5 10 15

Ser Pro Phe Gln Ile Leu Gly Val Trp Leu Thr Tyr Arg Tyr Arg Asn  
20 25 30

Gln Lys Asp Pro Arg Ala Asn Pro Ser Ala Phe Leu  
35 40

&lt;210&gt; 6497

&lt;211&gt; 129

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (80)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 5746

<221> SITE  
 <222> (83)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (89)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (93)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (105)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (111)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (112)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (113)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (119)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6497  
 Trp Xaa Glu Ser Gly Leu Pro Ala Val Ala Ala Thr Leu Lys Leu Xaa  
     1                    5                    10                    15

Xaa Pro Pro Gly Cys Met Asn Ser Ala Arg Gly Leu Leu Arg Thr Leu  
                     20                    25                    30

His Gly Ala Arg His Met Val Arg Asp Ala Pro Glu Ile Pro Gln Gly  
                     35                    40                    45

Gly Ser Pro Ala Xaa Cys Ser Xaa Phe Arg Pro Asn Pro Glu Leu Thr  
                     50                    55                    60

## 5747

Glu Ala Leu Thr Thr Ser Phe Val Arg Arg Leu Phe Trp Gly Ser Xaa  
 65 70 75 80

Gly Ala Xaa Thr Pro Leu Ala Glu Xaa Leu Arg Thr Xaa Ser Ala Ser  
 85 90 95

Ser Ser Asp Pro Val Ser Ala Pro Xaa Ser Leu Thr Ala Glu Xaa Xaa  
 100 105 110

Xaa Gln Pro Ser Ser Tyr Xaa Gly Thr Pro Arg Phe Leu Arg Ile Pro  
 115 120 125

Glu

<210> 6498

<211> 104

<212> PRT

<213> Homo sapiens

<400> 6498

Pro Arg Val Arg Glu Asp Glu Gln Phe Pro Ser Ile Pro Ala Leu Val  
 1 5 10 15

His Ser Tyr Met Thr Gly Arg Arg Pro Leu Ser Gln Ala Thr Gly Ala  
 20 25 30

Val Val Ser Arg Pro Val Thr Trp Gln Gly Pro Leu Arg Arg Ser Phe  
 35 40 45

Ser Glu Asp Thr Leu Met Asp Gly Pro Ala Arg Ile Glu Pro Ile Arg  
 50 55 60

Ala Arg Lys Trp Ser Asn Ser Gln Pro Ala Asp Leu Ala His Met Gly  
 65 70 75 80

Gln Ser Arg Glu Asp Pro Ala Gly Met Glu Ala Ser Thr Met Pro Ile  
 85 90 95

Ser Ala Leu Pro Arg Thr Ser Ser  
 100

<210> 6499

<211> 190

<212> PRT

<213> Homo sapiens

## 5748

<220>  
 <221> SITE  
 <222> (57)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (120)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (123)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (174)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (181)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (185)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (186)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (187)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6499  
 Ala Ser Gly Thr Trp Asn Ala Pro Ala Gly Trp Cys Pro Gly Val Leu  
     1                    5                    10                    15  
 Ser Pro Leu Leu Pro Thr Ser Ala Gly Pro Val Ser Ser Cys Ala Gln  
                     20                    25                    30  
 Cys Gly Pro Val Ser Ala Pro Ala Ala Leu Ser Pro Pro His Ala Gly  
                     35                    40                    45



## 5749

Ser Arg Pro Gly His Arg Ala Val Xaa Cys Phe Pro Thr Ala Ala Gly  
50 55 60

Thr Ala Arg His Thr Gln Gly Leu Gly Arg Ala Gly Gly His Thr Ala  
65 70 75 80

Trp Leu Ser Cys Ser Trp Ser Pro Ala Ser Pro Arg Arg Pro Gly Gly  
85 90 95

Ser Ile Ser Gln Glu Ala Arg Ser Pro Gly Gly Trp Ala Gln Pro  
100 105 110

Arg Gln Met Asp Glu Lys Thr Xaa Lys Ala Xaa Glu Met Ala Leu Ser  
115 120 125

Leu Thr Arg Ala Val Ala Gly Gly Asp Glu Gln Val Ala Met Lys Cys  
130 135 140

Ala Ile Trp Leu Ala Glu Gln Arg Val Pro Leu Ser Val Gln Leu Lys  
145 150 155 160

Pro Glu Val Ser Pro Thr Gln Asp Ile Arg Phe Leu Met Xaa Gln Asn  
165 170 175

Gly His Ser Ser Xaa Ile Gln Pro Xaa Xaa Xaa Gln Gly Gly  
180 185 190

&lt;210&gt; 6500

&lt;211&gt; 86

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5750

<222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (53)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (67)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (72)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (74)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6500  
 Xaa Ile Pro Ile Leu Asn Pro Phe Xaa Ile Arg Leu Thr Ile Gly Lys  
           1                  5                  10                  15

Ala Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr  
                   20                  25                  30

Arg Xaa Ala Xaa Lys Gln Ala Gly Gln Lys Lys Lys Gln Gly His Asp  
           35                  40                  45

Xaa Lys Ala Ala Xaa Lys Ala Ala Leu Ile Tyr Thr Cys Thr Val Cys  
           50                  55                  60

Arg Thr Xaa Met Xaa Asp Pro Xaa Thr Xaa Lys Gln His Phe Glu Ser  
           65                  70                  75                  80

Lys His Pro Lys Thr Pro  
                   85

## 5751

&lt;210&gt; 6501

&lt;211&gt; 103

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (99)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6501

Gln Met Arg Val Lys Asp Pro Thr Lys Ala Leu Pro Glu Lys Ala Lys  
1 5 10 15

Arg Ser Lys Arg Pro Thr Val Pro His Asp Glu Asp Ser Ser Asp Asp  
20 25 30

Ile Ala Val Gly Leu Thr Cys Gln His Val Ser His Ala Ile Ser Val  
35 40 45

Asn His Val Lys Arg Ala Ile Ala Glu Asn Leu Trp Ser Val Cys Ser  
50 55 60

Glu Cys Leu Lys Glu Arg Gly Phe Tyr Asp Gly Gln Leu Val Leu Thr  
65 70 75 80

Ser Asp Ile Trp Leu Cys Leu Lys Cys Gly Phe Gln Gly Cys Gly Lys  
85 90 95

Asn Ser Xaa Ser Gln His Ser  
100

&lt;210&gt; 6502

&lt;211&gt; 92

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6502

Ile Leu Lys Val Gly Ala Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly  
1 5 10 15

Ile Ser Thr Pro Ser Phe Ser Ser Tyr Tyr Lys Gly Gly Phe Glu Gln  
20 25 30

Lys Met Ser Arg Arg Glu Ala Gly Leu Ile Leu Gly Val Ser Pro Ser  
35 40 45

## 5752

Ala Gly Lys Ala Lys Ile Arg Thr Ala His Arg Arg Val Met Ile Leu  
 50 55 60

Asn His Pro Asp Lys Gly Gly Ser Pro Tyr Val Ala Ala Lys Ile Asn  
 65 70 75 80

Glu Ala Lys Asp Leu Leu Glu Thr Thr Thr Lys His  
 85 90

<210> 6503

<211> 147

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6503

Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Glu Glu Ser Met Asn  
 1 5 10 15

Glu Ser His Pro Arg Lys Cys Ala Glu Ser Phe Glu Met Trp Asp Asp  
 20 25 30

Arg Asp Ser His Cys Arg Arg Pro Lys Phe Glu Gly His Pro Pro Glu  
 35 40 45

Ser Trp Lys Trp Ile Leu Ala Pro Val Ile Leu Tyr Ile Cys Glu Arg  
 50 55 60

Ile Leu Arg Phe Tyr Arg Ser Gln Gln Lys Val Val Ile Thr Lys Val  
 65 70 75 80

Val Met His Pro Ser Lys Val Leu Glu Leu Gln Met Asn Lys Arg Gly  
 85 90 95

Phe Ser Met Glu Val Gly Gln Tyr Ile Phe Val Asn Cys Pro Ser Ile  
 100 105 110

Ser Leu Leu Gly Met Ala Ser Phe Tyr Phe Asp Leu Cys Ser Arg Gly  
 115 120 125

Arg Phe Leu Leu His Ser Tyr Xaa Ser Ser Arg Gly Leu Asp Arg Lys  
 130 135 140

Ser Ile Arg

## 5753

145

&lt;210&gt; 6504

&lt;211&gt; 137

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6504

Glu Gly Asn Arg Ser Asp Val Thr Ser Val Lys Asp Ala Lys Ile Ala  
 1 5 10 15

Val Tyr Ser Cys Pro Phe Asp Gly Met Ile Thr Glu Thr Lys Gly Thr  
 20 25 30

Val Leu Ile Lys Thr Ala Glu Glu Leu Met Asn Phe Ser Lys Gly Glu  
 35 40 45

Glu Asn Leu Met Asp Ala Gln Val Lys Ala Ile Ala Asp Thr Gly Ala  
 50 55 60

Asn Val Val Val Thr Gly Gly Lys Val Ala Asp Met Ala Leu His Tyr  
 65 70 75 80

Ala Asn Lys Tyr Asn Ile Met Leu Val Arg Leu Asn Ser Lys Trp Asp  
 85 90 95

Leu Arg Arg Leu Cys Lys Thr Val Gly Ala Thr Ala Leu Pro Arg Leu  
 100 105 110

Thr Pro Pro Val Leu Glu Glu Met Gly His Cys Asp Ser Val Tyr Ser  
 115 120 125

Pro Glu Val Trp Arg Tyr Ser Gly Gly  
 130 135

&lt;210&gt; 6505

&lt;211&gt; 109

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5754

<222> (6)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (30)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (48)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (57)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (61)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (99)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (108)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6505  
 Leu Gln Leu Xaa Ser Xaa Gly Gly Lys Lys Arg Pro Leu Gly Phe Asn  
 1 5 10 15  
 Pro Ala Pro Phe Gly Pro Lys Gly Phe Asn Pro Arg Gly Xaa Pro Pro  
 20 25 30  
 Gly Lys Asn Phe Ser Pro Gly Gly Gly Xaa Arg Asn Pro Gln Thr Xaa  
 35 40 45  
 Pro Phe Pro Arg Gly Pro Gly Gly Xaa Pro Glu Thr Xaa Phe Gly Lys  
 50 55 60

## 5755

Lys Pro Pro Ile Gly Gly Pro Arg Ala Leu Pro Val Ser Gln Arg Glu  
 65 70 75 80

Thr Phe Ser Pro Thr Pro Lys Arg Thr Trp Phe Trp Gly Phe Leu Asn  
 85 90 95

Pro Gly Xaa Pro Thr Lys Thr Arg Val Cys Pro Xaa Ala  
 100 105

<210> 6506

<211> 133

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6506

Ala Ala Ala Glu His Arg Arg Gly Arg Lys Lys Asp Glu Val Arg Glu  
 1 5 10 15

Gly Ala Gly Phe Leu Glu Pro Gln Gly Ser Thr Glu Leu Ser Lys Xaa  
 20 25 30

Val Pro Val Asn Trp Glu Pro Pro Gln Pro Leu Pro Phe Pro Lys Tyr  
 35 40 45

Leu Arg Cys Tyr Arg Cys Leu Leu Glu Thr Lys Glu Leu Gly Cys Leu  
 50 55 60

Leu Gly Ser Asp Ile Cys Leu Thr Pro Ala Gly Ser Ser Cys Ile Thr  
 65 70 75 80

Leu His Lys Lys Asn Ser Ser Gly Ser Asp Val Met Val Ser Asp Cys  
 85 90 95

Arg Ser Lys Glu Gln Met Ser Asp Cys Ser Asn Thr Arg Thr Ser Pro  
 100 105 110

Val Ser Gly Phe Trp Ile Phe Ser Gln Tyr Cys Phe Leu Asp Phe Cys  
 115 120 125

5756

Asn Asp Pro Xaa Asn  
130

&lt;210&gt; 6507

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6507

Ser Cys Thr Met Pro Ser Ser Ile Ile Thr Leu Lys Asn Gly Ile Gln  
1 5 10 15

Asn Met Leu Gln Phe Tyr Ile Pro Glu Val Glu Gly Val Glu Gln Val  
20 25 30

Met Asp Asp Glu Ser Asp Glu Lys Glu Ala Asn Ser Pro  
35 40 45

&lt;210&gt; 6508

&lt;211&gt; 72

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6508

Ser Ala Pro Lys Ala Pro Ala Thr Pro Gly Ala Gln Xaa Ala Pro Asp  
1 5 10 15

Val Arg Leu Leu Tyr Val Leu Ala Ile Ala Ala Leu Gly Gly Leu Cys  
20 25 30

Leu Ile Leu Ala Ser Ser Leu Leu Tyr Val Ala Cys Leu Arg Glu Gly  
35 40 45

Arg Arg Gly Arg Arg Arg Lys Tyr Ser Leu Gly Arg Ala Asn Xaa Gly  
50 55 60

Arg Arg Ile Cys Gly Ala Thr Ala



## 5757

65

70

&lt;210&gt; 6509

&lt;211&gt; 35

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6509

Ser	Gly	Val	Ser	Xaa	Phe	Ser	Asn	Pro	Val	Gln	Tyr	Trp	Glu	Ile	Gln
1				5					10					15	

Pro	Ser	Thr	Phe	Arg	Cys	Val	Tyr	Val	Arg	Ser	Ala	Ile	Gln	Leu	Gly
			20					25					30		

Asn	Tyr	Lys
		35

&lt;210&gt; 6510

&lt;211&gt; 115

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (40)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (72)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5758

<220>  
 <221> SITE  
 <222> (77)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (78)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (109)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6510  
 Asn Ser Ala Arg Ala Ser Ala Leu Lys Gln Tyr Xaa Arg Ser Leu Pro  
 1 5 10 15  
 Glu Pro Leu Met Thr Tyr Glu Leu His Gly Asp Phe Ile Val Pro Ala  
 20 25 30  
 Lys Ser Gly Ser Pro Glu Ser Xaa Val Asn Ala Ile His Phe Leu Val  
 35 40 45  
 His Lys Leu Pro Glu Lys Asn Lys Glu Met Leu Asp Ile Leu Val Lys  
 50 55 60  
 His Leu Thr Asn Val Xaa Asn Xaa Ser Lys Gln Asn Xaa Xaa Thr Val  
 65 70 75 80  
 Ala Asn Leu Gly Val Val Phe Gly Pro Thr Leu Met Arg Pro Gln Glu  
 85 90 95  
 Glu Thr Val Ala Ala Leu Met Asp Phe Glu Val Ser Xaa Tyr Cys Cys  
 100 105 110  
 Gly Lys Ser  
 115

<210> 6511  
 <211> 129  
 <212> PRT  
 <213> Homo. sapiens

<220>  
 <221> SITE  
 <222> (103)  
 <223> Xaa equals any of the naturally occurring L-amino acids

## 5759

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (118)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6511

Thr	Gly	Asn	Lys	Met	Gln	Asp	Pro	Asn	Ala	Asp	Thr	Glu	Trp	Asn	Asp
1				5					10					15	

Ile	Leu	Arg	Lys	Lys	Gly	Ile	Leu	Pro	Pro	Lys	Glu	Ser	Leu	Lys	Glu
			20					25					30		

Leu	Glu	Glu	Glu	Ala	Glu	Glu	Glu	Gln	Arg	Ile	Leu	Gln	Gln	Ser	Val
		35					40					45			

Val	Lys	Thr	Tyr	Glu	Asp	Met	Thr	Leu	Glu	Glu	Leu	Glu	Asp	His	Glu
	50					55					60				

Asp	Glu	Phe	Asn	Glu	Glu	Asp	Glu	Arg	Ala	Ile	Glu	Met	Tyr	Arg	Arg
65						70				75					80

Arg	Arg	Leu	Ala	Glu	Trp	Lys	Ala	Thr	Lys	Leu	Lys	Asn	Lys	Phe	Gly
				85					90					95	

Glu	Val	Leu	Glu	Ile	Ser	Xaa	Lys	Asp	Tyr	Val	Gln	Glu	Val	Thr	Lys
		100						105					110		

Ala	Gly	Glu	Gly	Leu	Xaa	Val	Ile	Leu	His	Leu	Tyr	Asn	Gln	Gly	Ile
		115					120					125			

Pro

&lt;210&gt; 6512

&lt;211&gt; 110

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (96)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (101)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5760

&lt;400&gt; 6512

Phe Glu Lys Tyr Met Leu Thr Val Gln Tyr Phe Ser Ile Ile Phe Pro  
 1 5 10 15

Leu Phe Tyr Arg Ala Asn Val Lys Pro Arg Asn Ser Thr Pro Pro Ser  
 20 25 30

Leu Ala Arg Asn Pro Ala Pro Gly Val Leu Thr Asn Lys Arg Lys Thr  
 35 40 45

Tyr Thr Glu Ser Tyr Ile Ala Arg Pro Asp Gly Asp Cys Ala Ser Ser  
 50 55 60

Leu Asn Gly Gly Asn Ile Lys Gly Ile Glu Gly His Ser Pro Gly Asn  
 65 70 75 80

Leu Pro Lys Phe Cys His Glu Cys Gly Thr Lys Tyr Pro Val Glu Xaa  
 85 90 95

Ala Lys Phe Cys Xaa Glu Cys Gly Ile Arg Arg Met Ile Leu  
 100 105 110

&lt;210&gt; 6513

&lt;211&gt; 75

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6513

Val Pro Ala Ala Gly Thr Pro Arg Ala Asn Gln Pro Gly Phe Arg Lys  
 1 5 10 15

His Leu Gly Leu Leu Glu Lys Lys Lys Asp Tyr Lys Leu Arg Ala Asp  
 20 25 30

Asp Tyr Arg Lys Lys Gln Glu Tyr Leu Arg Ala Leu Arg Lys Lys Ala  
 35 40 45

Leu Glu Lys Asn Pro Asp Glu Phe Tyr Tyr Lys Met Thr Arg Val Lys  
 50 55 60

Leu Gln Asp Gly Phe His Val Ile Glu Gly Asp  
 65 70 75

&lt;210&gt; 6514

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

## 5761

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (24)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6514  
Xaa Val Phe Glu Xaa Xaa Ala Pro Gly Xaa Tyr Lys Phe Tyr Leu Gln  
1 5 10 15  
Asn Arg Ser Leu Pro Gln Ser Xaa Pro Val Leu Lys Val Thr Leu Ala  
20 25 30  
Val Ser Asp Leu Gln Lys Ser Leu Asn Tyr Trp Cys Tyr Leu Leu Gly  
35 40 45  
Met Lys Ile Tyr Glu Lys Tyr Tyr Lys Ser Tyr Arg Ala Cys Leu Gly  
50 55 60  
Phe Leu Lys Asn Pro Cys  
65 70

<210> 6515  
<211> 122  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE

## 5762

&lt;222&gt; (77)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (81)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (99)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (103)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (116)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (122)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6515

Ser	Trp	Tyr	Pro	Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr	His
1				5					10					15	

Ala	Ser	Val	Glu	Leu	Asn	Glu	Leu	Leu	Leu	Asp	Lys	Asn	Gln	Glu	Pro
			20					25					30		

Gln	Trp	Arg	Glu	Thr	Ala	Arg	Trp	Ile	Lys	Phe	Glu	Glu	Asp	Val	Asp
		35					40					45			

Glu	Asp	Ala	His	Asp	Ser	Glu	Ala	Lys	Val	Ala	Ser	Leu	Arg	Gly	Met
	50					55					60				

Glu	Leu	Gln	Gly	Cys	Ala	Ser	Thr	Gln	Val	Glu	Ser	Xaa	Asn	Asn	Gln
65					70					75					80

Xaa	Glu	Gln	Lys	Gln	Val	Arg	Leu	Pro	Glu	Ser	Arg	Leu	Thr	Pro	Trp
			85					90						95	

Glu	Val	Xaa	Phe	Ile	Gly	Xaa	Glu	Lys	Glu	Glu	Arg	Asp	Arg	Leu	His
		100						105					110		

Leu	Lys	Ala	Xaa	Glu	Glu	Leu	Asn	Gln	Xaa
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## 5763

115

120

&lt;210&gt; 6516

&lt;211&gt; 47

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6516

Pro	Arg	Val	Arg	Pro	Arg	Val	Arg	Glu	Asn	Glu	Tyr	Gln	Ala	Xaa	Ser
1				5				10						15	

Val	Pro	Pro	Thr	Arg	Leu	Leu	Ile	Lys	Glu	Pro	Ser	Lys	Arg	Val	Gly
			20					25					30		

His	Phe	Arg	Gly	Leu	Gln	Asn	Trp	Lys	Ala	Xaa	Ser	Phe	Thr	Met
		35					40					45		

&lt;210&gt; 6517

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5764

&lt;400&gt; 6517

Gly Gly Xaa Xaa Gly Xaa Pro Leu Tyr Leu His Leu Leu Met Ser Leu  
 1 5 10 15  
 His Arg Ala Arg Leu Glu Ser Ser Ser Thr Gly Ser Ser Phe Pro Ala  
 20 25 30  
 Asp Ser Ala Lys Pro Val Pro Leu Ala Val Val Ser Leu Asp Ser Arg  
 35 40 45

&lt;210&gt; 6518

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6518

Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Thr Thr Ala Leu Glu Leu  
 1 5 10 15  
 Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Glu Gln Asn Gln Trp  
 20 25 30

&lt;210&gt; 6519

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6519

Ala Xaa Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala  
 1 5 10 15  
 Val Thr Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser  
 20 25 30



## 5765

Ala Arg Gly Tyr Thr Gly Asn Gly  
           35                          40

<210> 6520

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6520

Xaa Xaa His Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr  
       1                          5                          10                          15

Ala Val Xaa Ser Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn  
                           20                          25                          30

Ser Ala Arg Ser Ala Arg Ala Lys Asp Thr Asn Leu Val Phe Pro Gly  
                           35                          40                          45

Ile Glu Gln Gln Ala Phe Gln Asp Cys His Pro  
       50                          55

<210> 6521

<211> 66

<212> PRT

<213> Homo sapiens

<220>

## 5766

<221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (52)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (57)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6521  
 Gly Phe Xaa Xaa Leu Thr Arg Ile Thr Leu Thr Lys Gly Asn Lys Ser  
     1                    5                    10                    15  
 Trp Ser Ser Thr Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro  
                     20                    25                    30  
 Gly Cys Arg Asn Ser Ala Arg Ala Leu Ser Arg Pro Phe Ser Xaa Cys  
                     35                    40                    45  
 Pro Arg Ala Xaa Thr Ala Pro Arg Xaa Arg Arg Trp Asn Ala Arg Thr  
                     50                    55                    60  
 Xaa Gly  
     65

<210> 6522  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

5767

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6522  
Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Asn Glu Ser Tyr  
1 5 10 15  
Tyr Asn Ser Leu Ala Val Val Leu Gln Xaa Arg Asp Trp Glu Asn Pro  
20 25 30  
Xaa Thr Xaa Pro Ser Xaa Xaa Gly Pro  
35 40

<210> 6523  
<211> 68  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (7)

## 5768

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6523

Arg	Xaa	Gln	Lys	Leu	Ala	Xaa	Pro	Pro	Gln	Val	Ala	Ala	Ala	Leu	Glu
1				5					10					15	

Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser	Ala	Arg	Ala	Ala	Arg	Ala
			20					25					30		

Ala	Arg	Gly	Gly	Ala	Arg	Tyr	Pro	Ile	Arg	Pro	Ile	Val	Ser	Arg	Ile
		35					40					45			

Thr	Ile	His	Trp	Pro	Ser	Phe	Xaa	Asn	Val	Val	Thr	Gly	Lys	Thr	Gln
	50					55					60				

Xaa	Xaa	Xaa	Ile
65			

<210> 6524

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 5769

<221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6524  
 Leu Val Pro Lys Gly Gly Pro Val Pro Asn Ser Pro Tyr Xaa Glu Ser  
           1                  5                  10                  15  
 Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Lys  
                   20                  25                  30  
 Pro Xaa Xaa Xaa  
                   35

<210> 6525  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (31)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (33)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6525  
 Ala Ala Arg Gly Gly Pro Gly Thr Asn Ser Pro Tyr Ser Glu Ser Tyr  
           1                  5                  10                  15  
 Tyr Asn Ser Leu Ala Val Val Leu Asn Val Val Thr Gly Pro Xaa Xaa

## 5770

20

25

30

Xaa

&lt;210&gt; 6526

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (52)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (54)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6526

Leu	Thr	Leu	Thr	Lys	Gly	Asn	Lys	Ser	Trp	Ser	Ser	Thr	Ala	Val	Ala
1				5				10						15	

Ala	Ala	Leu	Glu	Leu	Val	Gly	Ala	Arg	Tyr	Pro	Ile	Arg	Pro	Ile	Val
			20					25					30		

Ser	Arg	Ile	Thr	Ile	His	Trp	Pro	Ser	Phe	Tyr	Asn	Val	Val	Thr	Gly
		35					40					45			

Lys	Thr	Gln	Xaa	Xaa	Xaa
					50

&lt;210&gt; 6527

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5771

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (58)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (60)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (61)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (63)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6527  
 Asp Ser Pro Leu Arg Lys Val Pro Ser Leu Lys Gly Asn Lys Ser Gly  
 1 5 10 15  
 Ser Ser Thr Ala Val Xaa Val Val Leu Gln Leu Val Asp Pro Pro Gly  
 20 25 30  
 Cys Arg Asn Ser Val Arg Ala Arg Asp Xaa Pro Met Lys Ser Gly Gly  
 35 40 45  
 Trp Phe Ile His Trp Lys Cys Cys Val Xaa Ala Xaa Xaa Lys Xaa Thr  
 50 55 60  
 Xaa Thr Ser Glu Glu  
 65

<210> 6528  
 <211> 36

## 5772

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6528

Gly	Thr	Ser	Gly	Thr	Arg	Gly	Gly	Pro	Val	Pro	Asn	Ser	Pro	Tyr	Xaa
1				5				10						15	

Glu	Ser	Tyr	Tyr	Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Xaa	Asp	Trp
			20					25					30		

Glu	Thr	Xaa	Lys
			35

&lt;210&gt; 6529

&lt;211&gt; 68

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (68)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6529

Pro	Ser	Xaa	Lys	Arg	Asn	Lys	Ser	Trp	Ser	Ser	Thr	Ala	Val	Ala	Ala
1			5					10						15	

Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser	Ala	Arg	Ala
			20					25					30		



## 5773

Ala Arg Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val  
35 40 45

Ser Arg Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Ile Pro  
50 55 60

Pro Lys Lys Xaa  
65

<210> 6530

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6530

Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Xaa Glu Ser Tyr  
1 5 10 15

Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Xaa  
20 25 30

Asn

<210> 6531

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

## 5774

<222> (20)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6531  
Gly Thr Ser Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Xaa  
1 5 10 15  
Glu Ser Tyr Xaa Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp  
20 25 30  
Glu Asn Pro Xaa  
35

<210> 6532  
<211> 61  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 5775

<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6532  
Gly Xaa Ile Trp Xaa Xaa Ser Thr Lys Lys Trp Arg Phe Ala Leu Glu  
1 5 10 15  
Leu Val Asp Pro Pro Gly Cys Arg Asn Pro Ala Arg Ala Xaa Thr Arg  
20 25 30  
Gly Gly Pro Val Pro Xaa Ser Pro Tyr Ser Glu Ser Xaa Tyr Asn Ser  
35 40 45  
Leu Xaa Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro  
50 55 60

<210> 6533  
<211> 49  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 5776

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6533

Ser	Lys	Val	Ser	Ser	Xaa	Ile	Lys	Gly	Thr	Xaa	Gly	Pro	Ala	Pro	Xaa
1				5					10					15	

Lys	Val	Ala	Phe	Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn
			20					25					30		

Pro	Xaa	Arg	Ala	Xaa	Xaa	Gly	Gly	Ala	Arg	Phe	Pro	Ile	Arg	Pro	Ile
		35					40					45			

Xaa

&lt;210&gt; 6534

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (40)

## 5777

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6534

Gly	Thr	Arg	Gly	Gly	Pro	Val	Pro	Asn	Ser	Pro	Tyr	Xaa	Glu	Ser	Tyr
1				5					10					15	

Tyr	Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Leu	Asp	Trp	Glu	Asn	Pro
			20					25					30		

Asn	Xaa	Phe	Leu	Cys	Xaa	Phe	Xaa	Xaa
		35					40	

<210> 6535

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6535

Gly	Thr	Ser	Gly	Thr	Arg	Gly	Gly	Pro	Val	Pro	Asn	Ser	Pro	Tyr	Xaa
1				5					10					15	

Glu	Ser	Tyr	Tyr	Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Arg	Asp	Trp
			20					25					30		

Glu	Asn	Pro	Lys
		35	

<210> 6536

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5778

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6536  
Xaa Gly Thr Xaa Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr  
1 5 10 15  
Xaa Glu Ser Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp  
20 25 30  
Trp Glu Asn Pro Xaa Xaa Phe Pro  
35 40

<210> 6537  
<211> 62  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 5779

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6537

Leu	Lys	Ala	Pro	Xaa	Gly	Thr	Arg	Gly	Xaa	Arg	Arg	Ser	Ile	Ser	Ser
1				5				10					15		

Gly	Ser	Pro	Gly	Leu	Gln	Glu	Phe	Gly	Thr	Ser	Gly	Pro	Arg	Gly	Gly
			20					25					30		

Pro	Val	Pro	Ser	Ser	Xaa	Phe	Ser	Glu	Ser	Tyr	Tyr	Asn	Ser	Leu	Ala
		35					40					45			

Val	Val	Leu	Gln	Arg	Arg	Xaa	Trp	Glu	Asn	Pro	Cys	Leu	Leu
	50					55					60		

&lt;210&gt; 6538

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5780

<220>  
<221> SITE  
<222> (76)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (77)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (78)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (79)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6538  
Arg Arg Xaa Gly Glu Xaa Cys Ser Xaa Ile Asn Pro Gln Ile Xaa Gly  
1 5 10 15  
Lys Lys Ile Trp Ser Ser Thr Ala Val Ala Asp Ala Leu Xaa Leu Val  
20 25 30  
Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Ala Arg Gly Gly Ala  
35 40 45  
Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg Ile Thr Ile His Trp Pro  
50 55 60  
Ser Phe Tyr Asn Val Val Thr Gly Lys Thr Gln Xaa Xaa Xaa Xaa Gly  
65 70 75 80

<210> 6539  
<211> 48  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids



## 5781

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (48)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6539  
Xaa Gly Xaa Glu Gly Tyr Ile Arg Leu Ala Xaa Gln Leu Thr Leu Xaa  
1 5 10 15  
Asn Gly Asn Lys Thr Trp Ser Ser Thr Ala Val Ala Ala Ala Leu Glu  
20 25 30  
Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Xaa Xaa Xaa  
35 40 45

<210> 6540  
<211> 107  
<212> PRT  
<213> Homo sapiens

<220>

## 5782

<221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (17)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (64)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (95)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (100)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (102)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 6540  
 Phe Xaa Ser Pro Gly Cys Arg Asn Ser Ile Ser Ser Leu Ser Ile Pro  
   1                  5                  10                  15  
  
 Xaa Thr Ser Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Ser Glu Ser  
                   20                  25                  30  
  
 Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn  
           35                  40                  45  
  
 Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala Gln Ser Pro Phe Xaa  
   50                  55                  60  
  
 Gln Leu Gly Val Ile Ser Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln  
   65                  70                  75                  80  
  
 Gln Leu Arg Ser Leu Asn Gly Glu Trp Asp Ala Pro Cys Ser Xaa Ala  
           85                  90                  95  
  
 Leu Ser Ala Xaa Val Xaa Trp Leu Pro Ala Val  
           100                  105

## 5783

&lt;210&gt; 6541

&lt;211&gt; 68

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6541

Xaa	Lys	Val	Xaa	Ala	Thr	Arg	Thr	Lys	Gly	Asn	Lys	Ser	Trp	Ser	Ser
1				5					10					15	

Thr	Ala	Val	Ala	Ala	Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg
			20					25					30		

Asn	Ser	Ala	Arg	Asp	Phe	Gln	Val	Asp	Phe	Ser	Ala	Ser	Ser	Lys	Thr
		35					40					45			

Asp	Cys	Phe	Phe	Ser	Gly	Leu	Thr	Leu	Cys	Gly	Phe	Phe	Phe	Phe	Ser
	50					55					60				

Leu	Asn	Leu	Ile
65			

&lt;210&gt; 6542

&lt;211&gt; 110

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 5784

<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6542  
Thr Ala Ala Ala Ala Xaa Glu Leu Gly Asp Xaa Pro Gly Cys Arg  
1 5 10 15  
Asn Ser Ile Ser Ser Leu Ser Ile Pro Ser Thr Ser Arg Gly Gly Pro  
20 25 30

## 5785

Val Pro Asn Ser Pro Tyr Xaa Glu Ser Xaa Tyr Asn Ser Leu Ala Val  
                   35                  40                  45  
 Gly Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Xaa Thr Gln Leu Asn  
           50                          55                  60  
 Arg Xaa Xaa Gly His Pro Pro Phe Xaa Xaa Trp Arg Asn Ser Glu Glu  
   65                          70                  75                  80  
 Ala Arg Thr Xaa Arg Leu Pro Thr Xaa Ala Gln Pro Glu Trp Arg Met  
                           85                  90                  95  
 Gly Arg Ala Leu Tyr Gly Ala Leu Ser Arg Gly Gly Cys Gly  
                   100                  105                  110

<210> 6543

<211> 166

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5786

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (154)  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (158)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 5787

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (165)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6543

Asn	Ser	Ala	Arg	Gly	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr
1				5				10					15		

Leu	Thr	Ile	Ser	Ser	Leu	Gln	Ala	Glu	Asp	Val	Ala	Ala	Tyr	Ser	Cys
			20					25					30		

Gln	Gln	Tyr	Tyr	Ser	Phe	Pro	Phe	Thr	Phe	Gly	Pro	Gly	Thr	Lys	Val
		35					40					45			

Asp	Ile	Lys	Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro
	50					55					60				

Ser	Asp	Glu	Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu
65					70					75				80	

Asn	Asn	Phe	Tyr	Pro	Xaa	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn
				85					90					95	

Xaa	Leu	Gln	Ser	Gly	Asn	Xaa	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser
		100						105					110		

Lys	Asp	Arg	Xaa	Thr	Ala	Ser	Ala	Ala	Pro	Asp	Gly	Glu	Gln	Ser	Arg
		115					120					125			

Xaa	Gly	Glu	His	Lys	Phe	Arg	Leu	Arg	Val	Xaa	Xaa	Gln	Gly	Xaa	Xaa
	130					135						140			

Xaa	Arg	Xaa	Lys	Xaa	Leu	Thr	Gly	Xaa	Xaa	Xaa	Gly	Glu	Xaa	Pro	Leu
145					150					155					160

Phe	Leu	Phe	Ser	Xaa	Pro
				165	

&lt;210&gt; 6544

&lt;211&gt; 143

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5788

&lt;400&gt; 6544

```

Val Lys Ile Thr Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Tyr
 1             5             10             15

Cys Met Gln Ala Leu Gln Thr Pro Phe Thr Phe Gly Pro Gly Thr Lys
          20             25             30

Val Asp Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro
          35             40             45

Pro Ser Asp Glu Xaa Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu
          50             55             60

Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp
 65             70             75             80

Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp
          85             90             95

Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys
          100            105            110

Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln
          115            120            125

Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
          130            135            140

```

&lt;210&gt; 6545

&lt;211&gt; 157

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (54)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;



## 5789

<221> SITE  
<222> (71)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (102)  
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<222> (108)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (115)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (117)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (118)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 5790

&lt;222&gt; (139)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (141)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (145)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (150)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6545

Ser	Cys	Arg	Ile	Arg	His	Glu	Val	Leu	Arg	Gly	Pro	Leu	Leu	Gly	His
1				5					10					15	

Thr	Asp	Ala	Val	Trp	Gly	Leu	Ala	Tyr	Ser	Ala	Xaa	His	Gln	Arg	Leu
			20					25					30		

Leu	Ser	Cys	Ser	Ala	Xaa	Gly	Thr	Leu	Arg	Leu	Trp	Asn	Thr	Thr	Glu
		35					40					45			

Val	Ala	Pro	Ala	Leu	Xaa	Val	Phe	Asn	Asp	Thr	Lys	Glu	Leu	Gly	Ile
	50					55					60				

Pro	Ala	Ser	Val	Asp	Leu	Xaa	Ser	Xaa	Asp	Pro	Ser	His	Xaa	Val	Ser
65					70					75					80

Ser	Phe	Ser	Lys	Gly	Tyr	Thr	Asn	Ile	Phe	Asn	Met	Glu	Thr	Gln	Gln
				85					90					95	

Arg	Ile	Leu	Thr	Leu	Xaa	Ser	Asn	Val	Ile	Gln	Xaa	Pro	Thr	Leu	Pro
		100						105					110		

Ala	Lys	Xaa	Ile	Xaa	Xaa	Ile	Xaa	Leu	Leu	Leu	Phe	Arg	Ser	Thr	Ser
		115					120					125			

Cys	Ser	Leu	Lys	Xaa	Ala	Ile	Gln	Phe	Tyr	Xaa	Asn	Xaa	Ser	Gly	Lys
	130					135					140				

Xaa	Ser	Leu	His	Gly	Xaa	Pro	Leu	Lys	Leu	Phe	Gln	Phe
145					150					155		

## 5791

&lt;210&gt; 6546

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6546

Lys Trp Arg Leu Arg Ser Ala Pro Ala Glu Glu Gly Glu Ala Gly Gly  
1 5 10 15

Val Ser Val Leu Pro Val Cys Ser Thr Ala Pro Ala Ser Arg Thr Pro  
20 25 30

Pro Ala His Ala Asp Phe Pro Ser Ser Ala Arg Leu Ser Leu Val Leu  
35 40 45

Val Cys Ala Pro His Ala Pro Gly Arg Leu Val Ser His Cys Pro Ala  
50 55 60

Arg Leu Arg Trp Pro  
65

&lt;210&gt; 6547

&lt;211&gt; 89

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

## 5792

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6547

Leu	Arg	Ala	Asp	Xaa	Xaa	Lys	Leu	Xaa	His	Gln	Glu	Arg	Thr	Gln	Xaa
1				5					10					15	

Leu	Arg	Gln	Ala	Pro	Val	Gly	Xaa	Gly	Tyr	Phe	His	Leu	Leu	Asp	His
		20						25					30		

Lys	Xaa	Xaa	Ala	Xaa	Cys	Xaa	Ala	Asp	Phe	Arg	Gly	His	Trp	Val	Leu
		35					40					45			

Ile	Phe	Phe	Gly	Phe	Thr	His	Cys	Pro	Asp	Ile	Cys	Pro	Gln	Gln	Leu
	50					55					60				

Glu	Lys	Leu	Val	Gln	Val	Val	Arg	Glu	Leu	Xaa	Thr	Xaa	Leu	Val	Phe
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 5793

65

70

75

80

Leu Gln Xaa Thr Cys Leu His His Cys  
85

&lt;210&gt; 6548

&lt;211&gt; 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5794

&lt;400&gt; 6548

Gly Leu Xaa Phe Xaa Gly Met His Xaa Met Ala Xaa Thr His Trp Pro  
 1 5 10 15

Cys Pro Trp Pro Ala Leu Met Thr Arg Trp Thr Val Ser Leu Arg Ala  
 20 25 30

Pro Xaa Leu Ala Gln Leu Ser Asp Val Ala Met His Ser Leu Gly Xaa  
 35 40 45

Ala Phe Ile Tyr Xaa Gln Thr Asp Asp Ile Xaa Asp Val  
 50 55 60

&lt;210&gt; 6549

&lt;211&gt; 185

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5795

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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (103)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 5796

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (133)  
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<220>  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (142)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (147)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (148)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE



## 5797

&lt;222&gt; (150)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (154)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (171)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (181)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6549

Met	Arg	Pro	Glu	Val	Met	Ser	His	Lys	Xaa	Xaa	Ser	Ala	Pro	Arg	His
1				5					10					15	

Gly	Ser	Xaa	Xaa	Phe	Leu	Pro	Arg	Lys	Arg	Xaa	Thr	Xaa	Xaa	Arg	Gly
			20					25					30		

Lys	Val	Xaa	Ile	Phe	Pro	Lys	Asp	Asp	Pro	Ser	Lys	Pro	Val	His	Leu
		35					40					45			

Thr	Ser	Phe	Leu	Gly	Tyr	Lys	Ala	Gly	Met	Thr	His	Ile	Val	Xaa	Glu
	50					55					60				

Val	Asp	Arg	Pro	Gly	Ser	Xaa	Val	Asn	Xaa	Lys	Glu	Val	Val	Glu	Ala
65					70					75					80

Val	Thr	Ile	Val	Glu	Thr	Pro	Pro	Met	Val	Val	Val	Gly	Ile	Val	Xaa
				85					90					95	

Xaa	Met	Lys	Thr	Pro	Arg	Xaa	Leu	Arg	Thr	Phe	Xaa	Thr	Val	Phe	Ala
			100					105					110		

Xaa	His	Ile	Ser	Asp	Glu	Cys	Xaa	Arg	Arg	Phe	Tyr	Xaa	Asn	Trp	Xaa
		115					120					125			

Ser	Ser	Asn	Asn	Xaa	Ala	Phe	Thr	Xaa	Tyr	Cys	Xaa	Lys	Xaa	Gln	Asp
	130					135					140				

Xaa	Asp	Xaa	Xaa	Lys	Xaa	Leu	Gly	Glu	Xaa	Leu	Gln	Gln	His	Glu	Lys
145					150					155					160

Ile	Cys	Pro	Val	Ile	Arg	Val	Ile	Ala	His	Xaa	Gln	Asp	Ser	Pro	Ala
				165					170					175	

5798

Ser Ser Ala Pro Xaa Lys Lys Ala Thr  
180 185

<210> 6550  
<211> 39  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6550  
Ala Ala Val Gly Phe Phe Leu Gly Ile Val Trp Ser Gly Ala Gly Thr  
1 5 10 15

Gln Leu Xaa Phe Gly Glu Arg Pro Ala Xaa Lys Met Ile Gly Xaa Asn  
20 25 30

Ser Pro Leu Leu Val Gly Leu  
35

<210> 6551  
<211> 33  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (20)

## 5799

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6551

Gly Ile Pro Lys Ala Asp Ile Thr Trp Glu Leu Pro Asp Lys Xaa His

1

5

10

15

Leu Lys Ala Xaa Val Gln Ala Arg Xaa Tyr Gly Asn Xaa Phe Leu Xaa

20

25

30

Pro

<210> 6552

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

## 5800

<222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (39)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (49)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (58)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (62)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (63)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (66)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6552  
 Cys Val Phe Gln Gln Ile Tyr His Asn Tyr Leu Met Cys Ile Ser Xaa  
 1 5 10 15  
 Xaa Tyr His Asn Tyr Val Met Cys Ile Ser Thr Ile Cys His Ser Xaa  
 20 25 30  
 Leu Ile Cys Xaa Ser Lys Xaa His Ala Val Leu Ala Leu His Xaa Asn  
 35 40 45  
 Xaa Glu Thr Ile Arg Asn His His Thr Xaa Glu Thr Leu Xaa Xaa Gln  
 50 55 60

## 5801

Cys Xaa Ile Ile Ser Glu Arg Lys Leu Leu Phe Cys His Leu Tyr Ile  
 65 70 75 80

Phe Met

<210> 6553

<211> 130

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6553

Asn Pro Thr Ser Leu Leu Gly Xaa Phe Gly Tyr Arg Pro Pro Pro Ala  
 1 5 10 15

Val Phe Trp Arg Ala Ala Ala Ile Gly Pro Tyr Ala Thr Leu Met Pro  
 20 25 30

Val Gly Leu Gln Gln Gly Pro Gln Ser Asp Gln Glu Leu Glu Gln Ala  
 35 40 45

Pro Gly Thr Ala Arg Arg Arg Gly Arg Leu Thr Lys His Thr Lys Phe  
 50 55 60

Val Arg Asp Met Ile Arg Glu Val Cys Gly Phe Ala Pro Tyr Glu Arg  
 65 70 75 80

Arg Ala Met Glu Leu Leu Lys Val Ser Lys Asp Lys Arg Ala Leu Lys  
 85 90 95

Phe Ile Lys Lys Arg Val Gly Thr His Ile Arg Ala Lys Arg Lys Arg  
 100 105 110

Glu Glu Leu Ser Asn Val Leu Ala Ala Met Arg Lys Ala Ala Ala Lys  
 115 120 125

Lys Asp  
 130

<210> 6554

<211> 79

<212> PRT

## 5802

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5803

<220>  
 <221> SITE  
 <222> (61)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (68)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (72)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6554  
 Ser Arg Arg Ser Xaa Leu Gly Ala Ala Xaa Xaa Gln Ser Val Glu Glu  
           1                  5                  10                  15  
 Arg Ala Xaa Glu Xaa Pro Ser Cys Leu Gly Thr Leu Arg Xaa Val Ser  
                   20                  25                  30  
 Ala Val Trp Xaa Thr Asn Arg Phe Xaa Xaa Leu Xaa Asn Asp Val Ser  
           35                  40                  45  
 Asp Pro Phe Glu Gly Ala Glu Gly Ser Gln Arg Thr Xaa Lys Lys Lys  
           50                  55                  60  
 Pro Gly Gly Xaa Arg Arg Leu Xaa Ala Leu Xaa Ser Ser Cys Ala  
           65                  70                  75

<210> 6555  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<400> 6555  
 Ser Leu Asp Arg Val Ser Val Pro Met Trp Gly Thr Phe Leu Ser Glu  
           1                  5                  10                  15  
 Pro Leu Ser Ile Glu Gly Leu Val Gly Arg Tyr Leu Thr Asn Asn Leu  
                   20                  25                  30

## 5804

Met Glu Arg Ile Pro Ile Leu Tyr Arg Asn Pro Leu Ile Ile Arg Pro  
                   35                  40                  45

Cys Gly Met Ile Ile Pro Ser Gly Ile Asn Leu Ser Phe Glu Arg Leu  
           50                  55                  60

Ser Pro Ser Lys Gly  
   65

<210> 6556

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6556

Ile Thr Met Asp Trp Gln Ser Ile Lys Ile Gln Glu Leu Met Ser Asp  
   1                  5                  10                  15

Asp Gln Arg Glu Ala Gly Arg Ile Pro Arg Thr Ile Glu Cys Glu Leu  
           20                  25                  30

Val His Asp Leu Val Asp Ser Cys Val Pro Gly Asp Thr Val Thr Ile  
           35                  40                  45



## 5805

Thr Gly Ile Val Lys Val Ser Asn Ala Glu Glu Gly Ser Arg Asn Lys  
 50 55 60  
 Asn Asp Lys Cys Met Phe Leu Leu Tyr Ile Glu Ala Asn Ser Ile Ser  
 65 70 75 80  
 Asn Ser Lys Gly Gln Lys Thr Lys Ser Ser Glu Asp Gly Cys Lys His  
 85 90 95  
 Gly Met Leu Met Glu Phe Ser Leu Lys Asp Leu Tyr Ala Ile Gln Glu  
 100 105 110  
 Ile Gln Ala Glu Glu Asn Leu Phe Lys Leu Ile Val Asn Ser Leu Cys  
 115 120 125  
 Pro Val Ile Phe Gly His Glu Ala Ala Cys Asn Val Ala Pro Arg Gly  
 130 135 140  
 Val Tyr Xaa Cys Gly Asn Thr Thr Thr Thr Phe Gly Leu Thr Val Thr  
 145 150 155 160  
 Leu Ser Lys Asp Xaa Xaa Xaa Gly Xaa Phe Ala Phe Gly Thr Trp Cys  
 165 170 175  
 Pro Trp

&lt;210&gt; 6557

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5806

&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (66)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6557

Arg	Ser	Met	Thr	Val	Glu	Pro	Asn	Pro	Phe	Gln	Arg	Lys	Val	Leu	Xaa
1				5					10					15	

Lys	Gly	Phe	Glu	Pro	Ala	Asp	Asn	Lys	Xaa	Leu	Leu	Arg	Ala	Thr	Asp
			20					25					30		

Gly	Lys	Lys	Lys	Ile	Ser	Thr	Val	Val	Ser	Ser	Lys	Glu	Val	Asn	Lys
			35				40					45			

Phe	Gln	Xaa	Ala	Tyr	Ser	Asn	Leu	Leu	Arg	Ala	Asn	Met	Asp	Gly	Xaa
		50				55					60				

Lys	Xaa	Arg	Asp	Xaa
	65			

&lt;210&gt; 6558

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6558

His	Ile	Pro	Ser	Pro	Ala	Lys	Lys	Val	Pro	Arg	Leu	Pro	Ala	Thr	Ala
1				5					10					15	

Ala	Glu	Pro	Glu	Ser	Ser	Cys	His
			20				

&lt;210&gt; 6559

&lt;211&gt; 178

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

## 5807

<221> SITE  
 <222> (145)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (151)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (173)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (176)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (177)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6559  
 Trp Arg Leu Met Ser Arg Phe Asn Ala Phe Lys Arg Thr Asn Thr Ile  
 1 5 10 15  
 Leu His His Leu Arg Met Ser Lys His Thr Asp Ala Ala Glu Glu Val  
 20 25 30  
 Leu Leu Glu Lys Lys Gly Cys Ala Gly Val Ile Thr Leu Asn Arg Pro  
 35 40 45  
 Lys Phe Leu Asn Ala Leu Thr Leu Asn Met Ile Arg Gln Ile Tyr Pro  
 50 55 60  
 Gln Leu Lys Lys Trp Glu Gln Asp Pro Glu Thr Phe Leu Ile Ile Ile  
 65 70 75 80  
 Lys Gly Ala Gly Gly Lys Ala Phe Cys Ala Gly Gly Asp Ile Arg Val  
 85 90 95  
 Ile Ser Glu Ala Glu Lys Ala Lys Gln Lys Ile Ala Pro Val Phe Phe  
 100 105 110  
 Arg Glu Glu Tyr Met Leu Asn Asn Ala Val Gly Ser Cys Gln Lys Pro  
 115 120 125  
 Tyr Val Ala Leu Ile His Gly Ile Thr Met Gly Gly Gly Val Gly Leu  
 130 135 140

5808

Xaa Val His Gly Gln Phe Xaa Val Ala Thr Glu Lys Val Ser Phe Cys  
 145 150 155 160

Tyr Ala Arg Asn Cys Asn Arg Thr Gly Pro Leu Met Xaa Gly Gly Xaa  
 165 170 175

Xaa Phe

<210> 6560

<211> 86

<212> PRT

<213> Homo sapiens

<400> 6560

Phe Gly Arg Ala Asp Ser Glu Arg Gln Asn Gln Glu Tyr Gln Arg Leu  
 1 5 10 15

Met Asp Ile Lys Ser Arg Leu Glu Gln Glu Ile Ala Ile Tyr Arg Ser  
 20 25 30

Leu Leu Glu Gly Gln Glu Asp His Ser Gln Gln Phe Val Cys Leu Gln  
 35 40 45

Gly Pro Leu Arg Gln Gln Ala Leu Gly Leu Leu Leu Ser Phe Gly Gly  
 50 55 60

Cys Leu Leu Gly Arg Gly Met Gly Arg Lys Gly Pro Leu Pro Pro Ala  
 65 70 75 80

Leu Leu Leu Thr Cys Gln  
 85

<210> 6561

<211> 165

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

## 5809

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6561

Thr	His	Tyr	Xaa	Gly	Xaa	Ala	Gly	Xaa	Pro	Ala	Gly	Thr	Gly	Pro	Glu
1				5					10					15	

Phe	Pro	Gly	Arg	Pro	Xaa	Arg	Pro	Xaa	Glu	Gln	Asn	Arg	Lys	Asp	Ala
			20					25					30		

Glu	Ala	Trp	Phe	Thr	Ser	Arg	Thr	Glu	Glu	Leu	Asn	Arg	Glu	Val	Ala
		35					40					45			

Gly	His	Thr	Glu	Gln	Leu	Gln	Met	Ser	Arg	Ser	Glu	Val	Thr	Asp	Leu
	50					55					60				

Arg	Arg	Thr	Leu	Gln	Gly	Leu	Glu	Ile	Glu	Leu	Gln	Ser	Gln	Leu	Ser
65					70					75				80	

Met	Lys	Ala	Ala	Leu	Glu	Asp	Thr	Leu	Ala	Glu	Thr	Glu	Ala	Arg	Phe
				85					90					95	

Gly	Ala	Gln	Leu	Ala	His	Ile	Gln	Ala	Leu	Ile	Ser	Gly	Ile	Glu	Ala
		100						105					110		

Gln	Leu	Gly	Asp	Val	Arg	Ala	Asp	Ser	Glu	Arg	Gln	Asn	Gln	Glu	Tyr
		115					120					125			

Gln	Arg	Leu	Met	Asp	Ile	Lys	Ser	Arg	Leu	Glu	Gln	Glu	Ile	Ala	Thr
	130					135					140				

Tyr	Arg	Ser	Leu	Leu	Glu	Gly	Gln	Glu	Asp	His	Tyr	Asn	Asn	Leu	Ser
145					150					155				160	

Ala	Ser	Lys	Val	Leu
				165

## 5810

&lt;210&gt; 6562

&lt;211&gt; 180

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (82)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (87)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (89)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6562

Asp	Lys	Xaa	Glu	Thr	Trp	Arg	Glu	Val	Tyr	Leu	Gln	Asp	Ser	Phe	Lys
1				5					10					15	

Pro	Leu	Val	Cys	Ile	Ser	Pro	Asn	Ala	Ser	Leu	Phe	Asp	Ala	Val	Ser
		20						25				30			

Ser	Leu	Ile	Arg	Asn	Lys	Ile	His	Arg	Leu	Pro	Val	Ile	Asp	Pro	Glu
		35					40					45			

Ser	Gly	Asn	Thr	Leu	Tyr	Ile	Leu	Thr	His	Lys	Arg	Ile	Leu	Lys	Phe
	50					55					60				

Leu	Lys	Leu	Phe	Ile	Thr	Glu	Phe	Pro	Lys	Pro	Glu	Phe	Met	Ser	Lys
65					70					75					80

Ser	Xaa	Glu	Lys	Leu	Pro	Xaa	Trp	Xaa	Leu	Cys	Gln	Tyr	Cys	Tyr	Gly
				85					90					95	

Ser	Thr	Thr	Thr	Pro	Val	Tyr	Val	Ala	Leu	Gly	Ile	Phe	Val	Gln	His
			100					105					110		

Arg	Val	Ser	Ala	Leu	Pro	Val	Val	Asp	Glu	Lys	Gly	Arg	Val	Val	Asp
		115					120					125			

## 5811

Ile Tyr Ser Lys Phe Asp Val Ile Asn Leu Ala Ala Glu Lys Thr Tyr  
 130 135 140

Asn Asn Leu Asp Val Ser Val Thr Lys Ala Leu Gln His Arg Ser His  
 145 150 155 160

Tyr Phe Glu Gly Val Leu Lys Cys Tyr Leu His Glu Thr Trp Arg Pro  
 165 170 175

Ser Leu Thr Gly  
 180

<210> 6563

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6563

Asn Ser Ala Xaa Val Ala Arg Thr Ile Gly Ile Ser Val Asp Pro Arg  
 1 5 10 15

Arg Arg Asn Lys Ser Thr Glu Ser Xaa Gln Ala Asn Val Gln Xaa Leu  
 20 25 30

## 5812

Lys Glu Tyr Arg Ser Lys Leu Ile Leu Phe Xaa Arg Xaa Pro Ser Ala  
35 40 45

Pro Lys Lys Gly Asp Ser Ser Ala Glu Glu Leu Arg Thr Gly Pro Pro  
50 55 60

Ser  
65

<210> 6564

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids



## 5813

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (55)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (60)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (67)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (77)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 5814

&lt;400&gt; 6564

His Arg Asn His Leu Gly Xaa Xaa His Gly Lys Ile Ser Ser Gly Gly  
 1 5 10 15  
 Xaa Ser His Thr Xaa Xaa Ile Pro Met Xaa Leu Val Val Phe Xaa Pro  
 20 25 30  
 Xaa Leu Cys Xaa Lys Met Gly Xaa Pro Tyr Cys Ile Ile Lys Gly Lys  
 35 40 45  
 Xaa Xaa Leu Ala Thr Tyr Xaa Ser Thr Gly Ser Xaa Cys Thr Ile Val  
 50 55 60  
 Arg Leu Xaa Thr Gly Val Leu Gly Thr Xaa Lys Gly Xaa Phe  
 65 70 75

&lt;210&gt; 6565

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6565

Arg Thr Ala Val Met Pro Arg Glu Asp Arg Ala Thr Trp Lys Ser Asn  
 1 5 10 15  
 Tyr Phe Leu Lys Ile Ile Gln Leu Leu Asp Asp Tyr Pro Lys Cys Phe  
 20 25 30  
 Ile Val Gly Ala Asp Asn Val Gly Ser Lys Gln Met Gln Gln Ile Pro  
 35 40 45  
 His Val Pro Ser Arg Glu Gly Leu Trp Cys  
 50 55

&lt;210&gt; 6566

&lt;211&gt; 104

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

## 5815

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5816

&lt;400&gt; 6566

Asn Thr Val Leu Ser Gly Gly Thr Thr Met Tyr Pro Gly Ile Ala Asp  
 1 5 10 15

Arg Met Gln Xaa Glu Ile Thr Ala Leu Ala Pro Ser Thr Met Lys Ile  
 20 25 30

Lys Ile Ile Ala Pro Pro Xaa Arg Lys Phe Ser Val Trp Asp Arg Xaa  
 35 40 45

Xaa Pro Ser Trp Xaa Arg Cys Pro Pro Ser Asn Arg Phe Xaa Ser Ala  
 50 55 60

Ser Xaa Asn Xaa Glu Xaa Ile Pro Gly Pro Ser His Pro Ser Thr Arg  
 65 70 75 80

Lys Leu Leu Pro Xaa Gly Gly Xaa Asn Xaa Leu Ile Leu Arg Leu Gln  
 85 90 95

Pro Phe Ser Phe Glu Lys Lys Pro  
 100

&lt;210&gt; 6567

&lt;211&gt; 67

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (58)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6567

## 5817

Cys Asp Pro Pro Ala Lys Gly Cys Gln Gly Leu Phe His Tyr Gly Leu  
 1 5 10 15  
 Cys Val Leu Pro Phe Arg His Leu Arg Asn Ser Ser His Ala Gly Ala  
 20 25 30  
 Phe Val Ile Val Thr Glu Glu Ala Ile Ala Lys Gly Ile Arg Arg Asn  
 35 40 45  
 Cys Gly Xaa Ser Gln Val Pro Arg Pro Xaa Xaa Gly Glu Pro Gly Xaa  
 50 55 60  
 Ser Leu Gly  
 65

<210> 6568

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6568

Pro Xaa Gln Lys Gly Asp Thr Gly Glu Pro Gly Leu Pro Gly Thr Lys  
 1 5 10 15

## 5818

Gly Thr Arg Gly Pro Pro Gly Ala Ser Gly Tyr Pro Gly Asn Pro Gly  
                   20                  25                  30

Leu Pro Gly Ile Pro Gly Gln Asp Gly Pro Pro Gly Pro Pro Gly Ile  
           35                  40                  45

Pro Gly Cys Asn Gly Thr Lys Gly Glu Arg Gly Pro Leu Gly Pro Pro  
       50                  55                  60

Gly Leu Pro Gly Phe Ala Gly Asn Pro Gly Pro Pro Gly Leu Pro Gly  
   65                  70                  75                  80

Met Lys Gly Asp Pro Xaa Glu Ile Leu Gly His Val Pro Gly Met Leu  
                   85                  90                  95

Leu Lys Gly Glu Arg Arg Phe Pro Glu Xaa Xaa Gly Leu Xaa Ala  
           100                  105                  110

<210> 6569

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6569

Ala Ser Gly Asn Val Lys Lys Ala Leu Lys Leu Met Gly Ser Asn Glu  
   1                  5                  10                  15

Gly Glu Phe Lys Ala Glu Gly Asn Ser Lys Phe Thr Tyr Thr Val Leu  
           20                  25                  30

## 5819

Glu Asp Gly Cys Thr Lys His Thr Gly Glu Trp Ser Lys Thr Val Phe  
35 40 45

Glu Tyr Arg Thr Arg Lys Ala Val Arg Leu Pro Ile Val Asp Ile Ala  
50 55 60

Pro Tyr Asp Ile Gly Gly Pro Asp Gln Glu Phe Gly Val Asp Val Xaa  
65 70 75 80

Pro Asp Ser Leu Tyr Xaa Pro Asn Xaa Xaa  
85 90

<210> 6570

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 5820

&lt;221&gt; SITE

&lt;222&gt; (72)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6570

Trp	Ala	Tyr	Leu	Phe	Gln	Ala	Ala	Gly	Ala	Xaa	Tyr	Val	Val	Leu	Thr
1				5				10						15	

Thr	Lys	His	His	Glu	Gly	Phe	Thr	Asn	Trp	Xaa	Ser	Pro	Val	Ser	Trp
			20					25					30		

Asn	Trp	Asn	Ser	Lys	Asp	Val	Gly	Pro	His	Xaa	Asp	Leu	Val	Gly	Glu
		35					40					45			

Leu	Gly	Thr	Ala	Leu	Arg	Lys	Arg	Asn	Xaa	Arg	Tyr	Gly	Leu	Tyr	His
	50					55					60				

Xaa	Leu	Leu	Glu	Trp	Xaa	His	Xaa	Leu	Tyr	Leu	Leu	Asp	Lys
65					70					75			

&lt;210&gt; 6571

&lt;211&gt; 153

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (102)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (104)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (112)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (129)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (139)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids



## 5821

&lt;400&gt; 6571

```

Asp Met Arg Pro Leu Ser Asn Lys Ala Ser Ala Leu Val Phe Phe Ser
 1              5              10              15

Cys Arg Thr Asp Met Pro Tyr Arg Tyr His Ser Ser Leu Gly Gln Leu
          20              25              30

Asn Phe Thr Gly Ser Val Ile Tyr Glu Ala Gln Asp Val Tyr Ser Gly
          35              40              45

Asp Ile Ile Ser Gly Leu Arg Asp Glu Thr Asn Phe Thr Val Ile Ile
 50              55              60

Asn Pro Ser Gly Val Val Met Trp Tyr Leu Tyr Pro Ile Lys Asn Trp
 65              70              75              80

Arg Cys Pro Ser Ser Glu Glu Leu Gly His Val Thr Gly Cys Gly Gly
          85              90              95

Thr Thr Glu Pro Arg Xaa Trp Xaa Leu Gly Met Pro Arg Ala Ser Xaa
          100             105             110

Glu Val Leu Cys Ser Pro Gly Cys Ser Val Thr Asp Pro Ser Ser Gln
          115             120             125

Xaa His Leu Thr Ala Ser Leu Ser Phe Gln Xaa Lys Pro Leu Glu Ile
          130             135             140

Phe Gly His Phe Leu Trp Leu Leu Ala
145              150

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&lt;210&gt; 6572

&lt;211&gt; 86

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5822

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (73)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6572

Pro	Asn	His	Ser	Xaa	Tyr	Arg	Ala	Ile	Gly	Val	Ser	Lys	Xaa	Cys	Leu
1				5					10					15	

Ser	Gly	Ile	Asp	Val	Arg	Tyr	Leu	His	Phe	Leu	Glu	Gly	Thr	Arg	Asp
			20					25					30		

Tyr	Asp	Trp	Leu	Glu	Pro	Leu	Leu	Xaa	Asn	Gln	Thr	Val	Met	Ser	Ile
		35					40					45			

Xaa	Leu	Phe	Trp	Phe	Arg	His	Arg	Pro	Gln	Glu	Ser	Phe	Ser	Gly	Ser
	50					55					60				

Pro	Ala	His	Arg	Gln	Val	Pro	Val	Xaa	Ala	Pro	Arg	Leu	Ser	Pro	Ile
65					70					75					80

His	Glu	Gln	Gln	Val	Thr
				85	

&lt;210&gt; 6573

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6573

Tyr	Ile	Gln	Ser	His	Tyr	Gln	Leu	Glu	Leu	Gln	Cys	Cys	Ile	Asp	Trp
1				5					10					15	

Thr	His	Val	Thr	Asp	Pro	Leu	His	Arg	Xaa	Gln	Lys	Leu	Gln	Glu	Glu
				20				25					30		

## 5823

Lys His Lys Ser Ile Thr Glu Ala Leu Arg Arg Gln Glu Gln Asn Ile  
           35                                  40                                  45  
 Lys Ser Phe Glu Glu Thr Tyr Asp Arg Lys Leu Lys Asn Glu Leu Leu  
           50                                  55                                  60  
 Asn Phe His Arg Leu His Gly Val Cys Leu Ala Leu Gly Ile Leu Ile  
       65                                  70                                  75                                  80

<210> 6574

<211> 126

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6574

Tyr Ala Leu Arg Arg His Lys Leu Met Ser Leu Ile Gln Lys Glu Ala  
       1                                  5                                  10                                  15

Gln Gly Gln Ser Gly Thr Asp Gln Thr Val Gly Val Leu Ser Asn Pro  
           20                                  25                                  30

Thr Tyr Tyr Met Ser Asn Asp Ile Pro Tyr Thr Phe His Gln Asp Asn  
           35                                  40                                  45

Asn Phe Leu Tyr Leu Cys Gly Phe Gln Glu Pro Asp Ser Ile Leu Val  
       50                                  55                                  60

## 5824

Leu Xaa Ser Leu Pro Gly Lys Gln Leu Pro Xaa His Lys Ala Ile Leu  
 65 70 75 80

Phe Val Pro Arg Arg Asp Pro Ser Arg Glu Leu Trp Asp Gly Pro Xaa  
 85 90 95

Ser Gly Thr Asp Gly Ala Ile Ser Ser Asn Trp Ser Arg Arg Ser Leu  
 100 105 110

Tyr Ala Arg Arg Ile Ser Thr Xaa Cys Thr Lys Asn Glu Ser  
 115 120 125

<210> 6575

<211> 145

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6575

Gly Lys Phe Cys Val Gln Ser Glu Arg Gln Asp Ser Ala Ala Val Gly  
 1 5 10 15

Phe Asp Tyr Lys Glu Lys Leu Ala Lys His Glu Ser Gln Gln Asp Tyr  
 20 25 30

Ser Lys Gly Phe Gly Gly Lys Tyr Gly Val Gln Lys Asp Arg Met Asp  
 35 40 45

Lys Asn Ala Ser Thr Phe Glu Asp Val Thr Gln Val Ser Ser Ala Tyr

## 5825

50                                      55                                      60  
 Gln Lys Thr Val Pro Val Glu Ala Val Thr Ser Lys Thr Ser Asn Ile  
 65                                      70                                      75                                      80  
 Arg Ala Asn Phe Glu Asn Leu Ala Lys Glu Lys Glu Gln Glu Asp Arg  
                                     85                                      90                                      95  
 Arg Lys Ala Xaa Ala Glu Arg Ala Gln Arg Met Ala Lys Glu Arg Gln  
                                     100                                      105                                      110  
 Glu Gln Glu Glu Ala Arg Lys Lys Leu Gly Xaa Thr Ser Gln Ser Gln  
                                     115                                      120                                      125  
 Asn Ala Asn Ala Pro Cys Val Xaa Arg Thr Leu Ser Gln Pro Xaa Glu  
                                     130                                      135                                      140  
 Lys  
 145

<210> 6576  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 6576  
 Gly Gln Cys Cys Gln Glu Leu Arg Thr Ser Leu Arg Asn Val Thr Leu  
 1                                      5                                      10                                      15  
 His Cys Thr Asp Gly Ser Ser Arg Ala Phe Ser Tyr Thr Glu Val Glu  
                                     20                                      25                                      30  
 Glu Cys Gly Cys Met Gly Arg Arg Cys Pro Ala Pro Gly Asp Thr Gln  
                                     35                                      40                                      45  
 His Ser Glu Glu Ala Glu Pro Glu Pro Ser Gln Glu Ala Glu Ser Gly  
                                     50                                      55                                      60  
 Ser Trp Glu Arg Gly Val Pro Val Ser Pro Met His  
 65                                      70                                      75

<210> 6577  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 6577

## 5826

Leu Asp Asp Trp Gly Glu Thr Cys Lys Gly Cys Ala Glu Lys Ser Asp  
 1 5 10 15 .

Tyr Ile Arg Lys Ile Asn Glu Leu Met Pro Lys Tyr Ala Pro Lys Ala  
 20 25 30

Ala Ser Ala Arg Thr Asp Leu  
 35

<210> 6578

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6578

Glu Phe Gly Arg Gly Ile Asn Leu Glu Thr Pro Ser Met Val Ala Gly  
 1 5 10 15

Met Glu Phe Ile Lys Val Gly Arg Ala Trp Glu Asp Gly Lys Val Gly  
 20 25 30

Ser Ala Cys Pro Gly Ile Phe Arg Trp Pro Gly Val Leu Pro Xaa Gly  
 35 40 45

Arg Val Ile Gly Glu Pro Thr Glu Ser Asp Gly Arg Val Pro His Arg  
 50 55 60

Gly Pro Ala Gly Gly Arg Arg Gly Cys Pro Arg Thr Glu  
 65 70 75

<210> 6579

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

## 5827

<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (60)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (88)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6579  
Lys Met Pro Lys Ser Leu Lys Xaa Xaa Gln Thr Glu Xaa Leu Xaa Asn  
1 5 10 15

## 5828

Ala Leu Leu Gln Gly Xaa Pro Val Xaa Xaa Gly Arg Cys Xaa Arg Gln  
20 25 30

Pro Leu Thr Arg Cys Ile Ala Thr Ala Ser Gly Ser Lys Leu Lys Gly  
35 40 45

Gln Pro Val Arg Ile Xaa Pro Gly Lys Ser Asp Xaa Arg His Gln Pro  
50 55 60

Gly Gly Ser Met Arg Thr Gly Pro Thr Glu Ser Leu Ile Gln Gly Leu  
65 70 75 80

His Gln Ser Val Phe Arg Ala Xaa Lys Arg Ile Gly Leu Val Leu Phe  
85 90 95

Gly Lys Gly Asn Thr Gly Phe Pro Leu Ala Gly Thr Val Arg Pro  
100 105 110

<210> 6580

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids



## 5829

<220>  
<221> SITE  
<222> (72)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (73)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (83)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (84)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (89)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (113)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (114)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (119)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (121)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6580  
Leu Thr Tyr Val Arg Pro Lys Gly Leu Ile Ser Met Xaa Glu Ser Arg  
1 5 10 15

Ser Cys Asp Gly His Leu Gly Asn Phe Leu Gly Ala Arg Ser Pro Asp  
20 25 30

## 5830

Glu Thr Ile Phe Cys Asn Asp Xaa Pro Leu His Leu Leu His Xaa Trp  
                   35                                  40                                  45

Ser Pro Asp Ile Ile Pro Xaa Leu Val Ser Cys Arg Phe Thr Lys Glu  
           50                                  55                                  60

Thr Thr Xaa Lys Asn Phe Asn Xaa Xaa Tyr Gly Thr Lys Gly Asn Tyr  
   65                                  70                                  75                                  80

Thr Ser Xaa Xaa Trp Glu Tyr Ser Xaa Ser Ile Gln Asn Ser Asp Asn  
                                   85                                  90                                  95

Asp Leu Pro Val Phe Gln Gly Ile Ser Ser Phe Ser Leu Lys Gly Tyr  
                   100                                  105                                  110

Xaa Xaa Leu Met Arg Ser Xaa Ser Xaa Lys Ala Gln Pro Gln Thr Trp  
           115                                  120                                  125

Lys Ser Gly  
       130

<210> 6581

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6581

Leu Ala Phe Xaa Xaa Ile Lys Leu Gly Arg Tyr Ser Gly Leu Xaa His

**5831**

1	5	10	15
Gly Val Ala Tyr Gly Ala Thr Arg Tyr Asn Tyr Leu Lys Pro Arg Ala			
20	25	30	
Glu Glu Glu Arg Arg Ile Ala Ala Glu Glu Lys Lys Lys Gln Asp Glu			
35	40	45	
Leu Lys Arg Ile Ala Arg Glu Leu Ala Glu Asp Asp Ser Ile Leu Lys			
50	55	60	
Xaa Val Thr Leu Arg Pro Thr Pro Trp Thr Ser Ser Gly			
65	70	75	

&lt;210&gt; 6582

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6582

Pro Arg Lys Leu Lys Gln Thr Leu Arg Thr Lys Met Asn Glu Asn Leu			
1	5	10	15
Phe Ala Ser Phe Ile Ala Pro Thr Ile Leu Gly Leu Pro Ala Ala Val			
20	25	30	
Leu Ile Ile Leu Phe Pro Pro Leu Leu Ile Pro Thr Ser Lys Tyr Leu			
35	40	45	
Ile Asn Asn Arg Leu Ile Thr Thr Gln Gln			
50	55		

&lt;210&gt; 6583

&lt;211&gt; 118

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (58)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (67)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5832

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (109)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (118)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6583  
 Ala Gly Ala Val Ile Ile Gly Phe Arg Ser Lys Ile Lys Asn Ala Leu  
           1                  5                  10                  15  
 Ala His Phe Leu Pro Gln Gly Thr Pro Thr Pro Leu Ile Pro Ile Leu  
                   20                  25                  30  
 Val Ile Ile Glu Thr Ile Ser Leu Leu Ile Gln Pro Ile Ala Leu Ala  
           35                  40                  45  
 Val Arg Leu Thr Ala Tyr Ile Thr Ala Xaa His Leu Leu Met His Leu  
           50                  55                  60  
 Ile Gly Xaa Ala Thr Leu Xaa Ile Ser Thr Ile Asn Leu Pro Ser Thr  
           65                  70                  75                  80  
 Leu Ile Ile Phe Thr Ile Leu Ile Leu Leu Thr Ile Leu Glu Ile Ala  
                   85                  90                  95  
 Val Ala Leu Ile Gln Ser Leu Arg Phe Pro His Phe Xaa Leu Ser Leu  
           100                  105                  110  
 Leu Pro Ala Gln Gln Xaa  
           115

<210> 6584  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<400> 6584  
 Ile Gly Val Thr Ala Val Ala Phe Asn Lys Glu Leu Asp Pro Ile Gln  
           1                  5                  10                  15

## 5833

Lys Leu Phe Val Asp Lys Ile Arg Glu Tyr Lys Ser Lys Arg Gln Thr  
20 25 30

Ser Gly Gly Pro Val Asp Ala Ser Ser Glu Tyr Gln Gln Glu Leu Glu  
35 40 45

Arg Glu Leu Phe Lys Leu Lys Gln Met Phe Gly Asn Ala Asp Met Asn  
50 55 60

Thr Phe Pro Thr Phe Lys Phe Glu Asp Pro Lys Phe Glu Val Ile Glu  
65 70 75 80

Lys Pro Gln Ala

<210> 6585

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

5834

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (57)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (60)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (67)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6585  
 Xaa Gly Ala Val Ile Ile Xaa Phe Arg Ser Lys Ile Lys Xaa Ala Leu  
           1                  5                  10                  15  
 Ala His Phe Leu Ser Lys Xaa Thr Pro Thr Pro Leu Ile Pro Ile Leu  
                   20                  25                  30  
 Val Ile Met Xaa Asn Xaa Ile Leu Leu Xaa Xaa Pro Ile Ala Leu Gly  
           35                  40                  45  
 Val Ser Leu Ile Ala Tyr Ile Thr Xaa Gly His Xaa Leu Met His Leu  
           50                  55                  60  
 Ile Gly Xaa Val Pro Tyr Asn Ile Asn His  
           65                  70

<210> 6586  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE

## 5835

&lt;222&gt; (76)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6586

Arg	Glu	Ala	Phe	Gln	Ser	Val	Val	Leu	Pro	Ala	Phe	Glu	Lys	Ser	Cys
1				5					10					15	

Gln	Ala	Met	Phe	Gln	Gln	Ile	Asn	Asp	Ser	Phe	Arg	Leu	Gly	Thr	Gln
		20						25					30		

Glu	Tyr	Leu	Gln	Gln	Leu	Glu	Ser	His	Met	Lys	Ser	Arg	Lys	Ala	Arg
		35					40					45			

Glu	Gln	Glu	Ala	Arg	Glu	Pro	Val	Leu	Ala	Gln	Gln	Ala	His	Ile	Leu
	50					55					60				

Gln	Leu	Leu	Gln	Gln	Gly	His	Leu	Asn	Gln	Ala	Xaa	Gln	Gln	Ala	Leu
65					70					75					80

Thr	Ala	Ala	Asp	Leu	Asn	Leu	Val	Leu	Val	Cys	Val
				85					90		

&lt;210&gt; 6587

&lt;211&gt; 81

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (68)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (78)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (79)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6587

Ala	Val	Leu	Ala	Leu	Leu	Ser	Leu	Ser	Gly	Leu	Glu	Ala	Ile	Gln	Arg
1				5					10					15	

Thr	Pro	Lys	Ile	Gln	Val	Tyr	Ser	Arg	His	Pro	Ala	Glu	Asn	Gly	Lys
			20					25						30	

Ser	Asn	Phe	Leu	Asn	Cys	Tyr	Val	Ser	Gly	Phe	His	Pro	Ser	Asp	Ile
		35					40					45			
Glu	Val	Asp	Leu	Leu	Lys	Asn	Gly	Glu	Arg	Ile	Glu	Lys	Ser	Gly	Ala
		50				55					60				
Phe	Arg	Leu	Xaa	Phe	Gln	Gln	Gly	Leu	Val	Phe	Leu	Ser	Xaa	Xaa	Leu
65					70					75					80

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<210> 6588
<211> 154
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (150)
<223> Xaa equals any of the naturally occurring L-amino acids

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<400> 6588
Pro Gln Lys  Pro Leu Ser  Ser Thr  Pro Thr Gly Cys Xaa Trp Gly Lys
  1              5              10              15
Thr Gln Gly  Leu Gln Cys  Leu Gly  Pro Gly Trp Arg His  Leu His Ala
              20              25              30

```



## 5837

Val Pro Thr Ala Pro Pro Ala Leu Arg His Gly Leu Leu Arg Xaa Met  
           35                          40                          45  
 Cys Leu Pro Trp Thr Arg Arg Leu Gly Tyr Ser Ala Met Pro Gln Ala  
           50                          55                          60  
 Leu Thr Leu Val Pro Ser Trp Leu Pro Gly Pro Pro Gly Arg Thr Ser  
           65                          70                          75                          80  
 Ala Ala Arg Gly Cys Gly Arg Pro Ser Arg Ser Trp Arg Ala Ala Ala  
                           85                          90                          95  
 Glu Ala Gly Gly Pro Gly Gly Xaa Gly Pro Ala Xaa Val Gly Ser Gly  
                           100                          105                          110  
 Ala Gly Gly Arg Arg Pro Ala Val Thr Gly Ala Ala Pro Ala Ser Leu  
           115                          120                          125  
 Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu Glu Arg Pro  
           130                          135                          140  
 Pro Pro Arg Trp Ser Xaa Ser Phe Val Pro  
           145                          150

&lt;210&gt; 6589

&lt;211&gt; 128

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6589

Val Cys Met Ser Tyr Ala Phe His Thr Pro Asp Lys Leu Ser Phe Ile  
           1                          5                          10                          15  
 Leu Asp Leu Met Asn Gly Gly Asp Leu His Tyr His Leu Ser Gln His  
                           20                          25                          30  
 Gly Val Phe Ser Glu Ala Asp Met Arg Phe Tyr Ala Ala Glu Ile Ile  
           35                          40                          45  
 Leu Gly Leu Glu His Met His Asn Arg Phe Val Val Tyr Arg Asp Leu  
           50                          55                          60  
 Lys Pro Ala Asn Ile Leu Leu Asp Glu His Gly His Val Arg Ile Ser  
           65                          70                          75                          80  
 Asp Leu Gly Leu Ala Cys Asp Phe Ser Arg Arg Ser Pro Met Pro Ala  
                           85                          90                          95  
 Trp Ala Pro Thr Gly Thr Trp Leu Arg Arg Ser Cys Arg Arg Ala Trp

5838

100	105	110
Pro Thr Thr Ala Val Pro Thr Gly Ser Leu Trp Gly Ala Cys Ser Ser		
115	120	125

&lt;210&gt; 6590

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6590

Xaa Pro Thr Pro Val Thr Phe Gly Phe Xaa Pro Ser Phe Phe Ala Thr
1 5 10 15

Phe Ala Gly Phe Pro Arg Gln Ala Xaa Asn Xaa Gly Leu Pro Leu Gly
20 25 30

5839

Phe Pro Ile Xaa Xaa Phe Thr  
35

<210> 6591

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6591

Xaa Thr Ile Gly Lys Ala Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe  
1 5 10 15

Pro Gly Val Val Thr Arg Xaa Val Thr Ala Thr Leu Ala Ser Ala Leu  
20 25 30

Xaa Pro Ala Pro Phe Ala Phe Phe Pro Ser Phe Leu Ala Thr Phe Ala  
35 40 45

Gly Phe Pro Arg Gln Ala Leu Asn Arg Gly Leu Pro Leu Gly Phe Arg  
50 55 60

Phe Ser Ala Leu Arg His Leu Asp Pro Lys Lys Leu Asp  
65 70 75

<210> 6592

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

## 5840

<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (48)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6592  
Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met  
1 5 10 15  
Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala  
20 25 30  
Val Val Leu Gln Arg Arg Asp Trp Glu Xaa Pro Lys Xaa Ala Gln Xaa  
35 40 45  
Asp

<210> 6593  
<211> 77  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (59)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (64)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (77)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6593  
Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met  
1 5 10 15

## 5841

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala  
                   20                  25                  30

Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu  
           35                  40                  45

Asn Arg Leu Ala Ala His Pro Pro Phe Ala Xaa Trp Arg Asn Ser Xaa  
       50                  55                  60

Glu Ala Arg Thr Asp Arg Leu Pro Asn Ser Cys Ala Xaa  
       65                  70                  75

&lt;210&gt; 6594

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6594

Xaa Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly  
       1                  5                  10                  15

Ile Pro Gly Ser Thr His Ala Ser Ala His Ala Ser Gly Gly  
                   20                  25                  30

&lt;210&gt; 6595

&lt;211&gt; 87

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5842

&lt;222&gt; (69)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (72)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6595

Ile	Ala	Ser	Gly	Arg	Ser	Arg	Gly	Ser	Lys	Leu	Thr	Tyr	Ala	Cys	Met
1				5					10					15	

Arg	Arg	His	Ser	Ser	Ser	Ile	Val	Ser	Pro	Lys	Phe	Asn	Ser	Leu	Ala
			20					25					30		

Val	Val	Leu	Gln	Arg	Arg	Asp	Trp	Glu	Asn	Pro	Gly	Val	Thr	Gln	Leu
		35					40					45			

Asn	Arg	Leu	Ala	Ala	His	Pro	Pro	Phe	Ala	Ser	Trp	Arg	Asn	Xaa	Glu
		50				55					60				

Xaa	Ala	Arg	Asn	Xaa	Xaa	Pro	Xaa	Pro	Asn	Arg	Leu	Arg	Ser	Leu	Glu
65					70					75					80

Trp	Arg	Met	Gly	Arg	Ala	Leu
						85

&lt;210&gt; 6596

&lt;211&gt; 71

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5843

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (71)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6596

Lys	Lys	Lys	Lys	Arg	Ala	Ala	Ala	Leu	Glu	Asp	Pro	Ser	Leu	Arg	Thr
1				5				10					15		

Arg	Ala	Cys	Arg	Arg	His	Xaa	Ser	Ser	Ile	Val	Ser	Pro	Lys	Phe	Asn
			20				25						30		

Ser	Leu	Gly	Arg	Arg	Leu	His	Val	Val	Thr	Gly	Xaa	Asn	Pro	Ala	Val
		35					40					45			

Pro	Gln	Leu	Asn	Pro	Pro	Cys	Arg	Thr	Ser	Pro	Phe	Arg	Lys	Xaa	Xaa
	50					55					60				

Ile	Pro	Lys	Gly	Pro	Thr	Xaa
65					70	

&lt;210&gt; 6597

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6597

Ser	Gly	Thr	Thr	Xaa	Tyr	Arg	Glu	Ser	Trp	Tyr	Ala	Cys	Arg	Tyr	Arg
1				5					10					15	

Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Gly	Leu	Trp	Ser	Gln	Cys
			20					25					30		

5844

<210> 6598  
<211> 65  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (64)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6598  
Ala Ser Ser Arg Ser Arg Ala Xaa Xaa Leu Glu Asp Pro Ser Leu Arg  
1 5 10 15



## 5845

Thr Arg Ala Cys Arg Arg His Ser Xaa Ser Ile Val Ser Pro Lys Phe  
20 25 30

Asn Ser Leu Ala Val Val Leu Gln Arg Xaa Asp Trp Glu Asn Pro Gly  
35 40 45

Xaa Thr Gln Leu Lys Arg Leu Ala Val His Ser Leu Phe Xaa Gln Xaa  
50 55 60

Xaa  
65

<210> 6599  
<211> 106  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (80)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (84)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (97)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 5846

&lt;222&gt; (101)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6599

Thr	Ser	Asp	Xaa	Thr	Lys	Lys	Lys	Lys	Lys	Gly	Gly	Arg	Ser	Xaa	Gly
1				5					10					15	

Ser	Lys	Leu	Thr	Tyr	Ala	Cys	Met	Arg	Arg	His	Ser	Ser	Xaa	Ile	Val
			20					25					30		

Ser	Pro	Lys	Phe	Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Arg	Asp	Trp
		35					40					45			

Glu	Asn	Pro	Gly	Val	Thr	Gln	Leu	Asn	Arg	Leu	Ala	Ala	His	Thr	Pro
	50					55					60				

Phe	Ala	Ser	Trp	Arg	Asn	Ser	Glu	Glu	Ala	Arg	Thr	Asp	Arg	Pro	Xaa
65					70					75					80

Gln	Gln	Leu	Xaa	Ser	Leu	Asn	Gly	Glu	Trp	Asp	Ala	Pro	Cys	Ser	Gly
				85					90					95	

Xaa	Leu	Ser	Ala	Xaa	Gly	Val	Val	Val	Thr
			100					105	

&lt;210&gt; 6600

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

5847

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (66)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6600

Xaa	Xaa	Pro	Phe	Gly	Asn	Pro	Xaa	Gly	Thr	Thr	Xaa	Tyr	Arg	Glu	Ser
1				5				10						15	

Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala
			20					25					30		

Ser	Ala	Asp	Ala	Trp	Ala	Asp	Ala	Trp	Ala	Asp	Ala	Trp	Val	Lys	Xaa
		35					40					45			

Gly	Tyr	Lys	Lys	Leu	Phe	Val	Leu	Asp	Asp	Arg	Glu	Ala	His	Asn	Glu
	50					55					60				

Val	Xaa	Pro	Leu	Xaa	Xaa
65				70	

&lt;210&gt; 6601

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5848

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (67)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6601

Ile	Asn	Leu	Cys	Asn	Leu	Lys	Asn	Xaa	Xaa	Glu	Gly	Gly	Arg	Ser	Arg
1				5					10					15	

Gly	Ser	Lys	Leu	Thr	Tyr	Ala	Cys	Met	Arg	Arg	His	Ser	Ser	Ser	Ile
			20					25					30		

Val	Ser	Pro	Lys	Phe	Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Arg	Asp
		35					40					45			

Trp	Glu	Asn	Pro	Gly	Val	Thr	Xaa	Leu	Asn	Arg	Leu	Ala	Ala	His	Xaa
	50					55					60				

Pro	Phe	Xaa	Gln	Xaa
65				

&lt;210&gt; 6602

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5849

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (30)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (31)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6602  
 Leu Xaa Xaa Leu Trp Lys Thr Pro His Tyr Arg Leu Ser Trp Tyr Ala  
     1                    5                    10                    15  
 Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Xaa Xaa Ser  
                     20                    25                    30

<210> 6603  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (28)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (30)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

## 5850

&lt;400&gt; 6603

Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His  
 1 5 10 15

Ala Ser Gly Glu Ser Ser His Tyr Xaa Phe Ser Xaa Gly Xaa Gly Ala  
 20 25 30

Gly Xaa Phe Lys Ser Phe  
 35

&lt;210&gt; 6604

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6604

Asn Ser Ser Gly Asn Pro His Tyr Arg Xaa Ser Trp Tyr Ala Cys Arg  
 1 5 10 15

Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala His Ala Ser  
 20 25 30

Ala His Ala Xaa Glu Lys Xaa Arg Xaa Lys Lys Xaa

## 5851

35

40

<210> 6605  
<211> 43  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6605  
Xaa Ser Pro Ala Ser Tyr Pro Xaa His Tyr Arg Glu Ser Trp Tyr Ala  
1 5 10 15

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Asp  
20 25 30

## 5852

Ala Trp Val Asp Pro Xaa Ile Xaa Xaa Xaa Xaa  
                   35                                  40

<210> 6606

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6606

Tyr Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro  
       1                                  5                                  10                                  15

Gly Ser Thr His Ala Ser Gly Gln Xaa Xaa Xaa Phe Leu Trp Pro Thr  
                   20                                  25                                  30

Ser Glu Pro Val Thr Arg Lys Gly Lys Xaa Gly Arg Xaa Glu Asp Pro  
                   35                                  40                                  45

Thr Tyr Glu Xaa Asn Val Tyr Gly Leu



## 5853

50

55

&lt;210&gt; 6607

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6607

Tyr	Pro	His	Tyr	Arg	Glu	Ser	Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser	Gly
1				5					10					15	

Ile	Pro	Gly	Ser	Thr	His	Ala	Xaa	Ala	Glu	Arg	Glu	Thr	Ile	Ser	Ser
			20					25					30		

Leu	Gln	Gly	Thr	Ile	Pro	Gly	Asn	Val	Leu	Ile	His	Tyr	Gly	Ile	Lys
		35					40					45			

Ala	Val	Val
	50	

&lt;210&gt; 6608

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6608

Pro	Xaa	Lys	Leu	Leu	Xaa	Asn	Thr	Pro	His	Tyr	Arg	Glu	Ser	Trp	Tyr
1				5					10					15	

Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Gly
			20					25					30		

5854

His Phe

&lt;210&gt; 6609

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6609

Ile	Ala	Ser	Gly	Arg	Ser	Arg	Arg	Ser	Lys	Leu	Thr	Tyr	Ala	Cys	Met
1				5					10					15	

Arg	Arg	His	Ser	Ser	Ser	Ile	Leu	Ser	Pro	Lys	Phe	Asn	Ser	Leu	Ala
			20					25					30		

Val	Xaa	Leu	Gln	Arg	Arg	Asp	Trp	Glu	Asn	Xaa	Thr	Xaa	Xaa	Pro	Ser
		35					40					45			

&lt;210&gt; 6610

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6610

## 5855

Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met  
 1 5 10 15  
 Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala  
 20 25 30  
 Val Val Leu Gln Arg Arg Asp Trp Glu  
 35 40

&lt;210&gt; 6611

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6611

Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met  
 1 5 10 15

Arg Arg His Xaa Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala  
 20 25 30

Val Val Leu Gln Arg Arg Asp Trp Glu Thr Lys Xaa Xaa  
 35 40 45

&lt;210&gt; 6612

&lt;211&gt; 47

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

## 5856

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6612

Ile	Ala	Ser	Gly	Arg	Ser	Arg	Gly	Ser	Lys	Leu	Thr	Tyr	Ala	Cys	Met
1				5					10					15	

Arg	Arg	His	Ser	Ser	Ser	Ile	Val	Ser	Pro	Lys	Phe	Asn	Ser	Leu	Ala
			20					25					30		

Val	Val	Leu	Gln	Arg	Arg	Asp	Trp	Glu	Asn	Pro	Xaa	Arg	Xaa	Xaa	
		35					40					45			

<210> 6613

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5857

<222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
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 <222> (20)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 6613  
 Phe Xaa Ile Xaa Ser Gly Arg Xaa Arg Gly Ser Xaa Leu Xaa Tyr Ala  
   1                  5                  10                  15  
 Cys Met Arg Xaa His Ser Ser Xaa Ile Met Ser Pro Lys Phe Asn Ser  
                   20                  25                  30  
 Leu Ala Xaa Xaa Leu Gln Arg Arg Asp Trp Glu Asn Glu Cys  
           35                  40                  45  
  
 <210> 6614  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 6614

## 5858

Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met  
 1 5 10 15

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala  
 20 25 30

Val Val Leu Gln Arg Arg Asp Trp Thr Pro Lys Xaa Xaa  
 35 40 45

<210> 6615

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6615

Asp Tyr Xaa Xaa Ser Asn Thr Ser His Tyr Xaa Glu Ser Trp Tyr Ala  
 1 5 10 15

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala  
 20 25 30

<210> 6616

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6616

## 5859

Gly Gly Gly Val Gly Asn Asp Tyr Ala Leu Ser Asn Thr Xaa His Tyr  
 1 5 10 15  
 Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser  
 20 25 30  
 Thr His Ala Ser  
 35

<210> 6617

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6617

Leu Arg Xaa Ser Gln Ile Arg Xaa Xaa Ile Gly Xaa Ser Trp Tyr Ala  
 1 5 10 15

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Gly Val

## 5860

20 25 30  
Leu Val Val Ile Phe Phe Phe Xaa Pro Gly Cys Xaa Leu Phe  
35 40 45

&lt;210&gt; 6618

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6618

Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met  
1 5 10 15

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala  
20 25 30

Val Val Leu Gln Arg Arg Asp Trp Asp Pro Lys Xaa Xaa  
35 40 45

&lt;210&gt; 6619

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE



## 5861

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6619

Ile	Ala	Ser	Gly	Arg	Ser	Xaa	Gly	Ser	Lys	Leu	Thr	Tyr	Ala	Cys	Met
1				5					10					15	

Arg	Arg	His	Ser	Ser	Ser	Ile	Val	Ser	Pro	Lys	Phe	Asn	Ser	Leu	Ala
			20					25					30		

Val	Val	Leu	Gln	Arg	Arg	Asp	Trp	Glu	Thr	Gln	Xaa	Xaa
		35					40					45

&lt;210&gt; 6620

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6620

Arg	Val	Gly	Thr	Lys	Thr	Ser	Arg	Gly	Xaa	Lys	Arg	Ala	Ala	Ala	Leu
1				5					10					15	

Lys	Asp	Pro	Ser	Leu	Arg	Thr	Arg	Ala	Cys	Gly	Arg	His	Ser	Ser	Ser
			20					25					30		

Ile	Val	Ser	Pro	Lys	Phe	Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Arg
		35					40					45			

Asp Trp Asp Pro Xaa Asn Xaa Xaa Gly

## 5862

50

55

&lt;210&gt; 6621

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6621

Met	Asp	Ile	Ser	Leu	Leu	Lys	Lys	Lys	Lys	Lys	Gly	Gly	Arg	Ser	Arg
1				5					10					15	

Gly	Ser	Lys	Leu	Thr	Tyr	Ala	Cys	Met	Arg	Arg	His	Ser	Ser	Xaa	Ile
			20					25					30		

Xaa	Ser	Pro	Lys	Phe	Asn	Xaa	Leu	Ala	Arg
		35					40		

&lt;210&gt; 6622

&lt;211&gt; 77

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5863

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (56)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (77)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6622  
Ile Xaa Gly Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met  
1 5 10 15  
Arg Arg His Ser Ser Ser Ile Xaa Thr Pro Lys Phe Asn Ser Leu Ala  
20 25 30  
Val Xaa Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu  
35 40 45  
Asn Arg Leu Ala Ala His Pro Xaa Phe Ala Ser Trp Arg Asn Ser Glu  
50 55 60  
Glu Ala Arg Thr Asp Arg Leu Ala Asn Arg Cys Ala Xaa  
65 70 75

<210> 6623  
<211> 41  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)

## 5864

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6623

Arg	Ile	Gln	Ala	Tyr	Arg	Thr	Arg	Ala	Cys	Arg	Arg	His	Ser	Ser	Ser
1				5				10					15		
Ile	Val	Ser	Pro	Lys	Phe	Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Arg
			20					25					30		
Asp	Trp	Glu	Asn	Pro	Asp	Xaa	Xaa	Xaa							
			35				40								

<210> 6624

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6624

Leu	Arg	Gln	Ala	Leu	Ile	Arg	Leu	Thr	Ile	Xaa	Ile	Xaa	Trp	Tyr	Ala
1				5				10					15		
Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Ala	His
			20					25					30		
Ala	Ser	Val													
			35												

<210> 6625

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

5865

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6625

Leu	Arg	Gln	Ala	Leu	Ile	Arg	Leu	Thr	Ile	Gly	Xaa	Xaa	Trp	Tyr	Ala
1				5					10					15	

Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Ala	Lys
			20					25					30		

Ser	Asp	Arg	Ile	Val	Asn	Glu	Thr
		35					40

&lt;210&gt; 6626

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6626

Leu	Arg	Gln	Ala	Leu	Ile	Arg	Leu	Thr	Ile	Xaa	Ile	Xaa	Trp	Tyr	Ala
1				5					10					15	

Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Glu	Tyr
			20					25					30		

Leu	Leu	Leu	Glu
			35

&lt;210&gt; 6627

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

5866

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6627

Pro	Xaa	Leu	Arg	Gln	Ala	Leu	Ile	Arg	Leu	Thr	Ile	Gly	Xaa	Ser	Trp
1				5				10					15		

Tyr	Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser
			20				25						30		

Asp

&lt;210&gt; 6628

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 5867

<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6628  
Xaa Lys Gly Asn Xaa Xaa Thr Ala Met Thr Met Ile Thr Pro Ser Ser  
1 5 10 15  
Asn Thr Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Xaa  
20 25 30  
Gly Xaa Pro Gly Ser Thr His Ala Xaa Ala His Ala Ser Xaa Pro Met  
35 40 45  
Thr Thr Lys Gly Arg Lys Lys Tyr Phe Leu His  
50 55

<210> 6629  
<211> 61  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (24)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (53)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 5868

&lt;222&gt; (61)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6629

Thr	Ile	Gly	Asn	Leu	His	Arg	Ile	Thr	Ala	Met	Thr	Met	Ile	Thr	Pro
1				5					10					15	

Ser	Ser	Asn	Thr	Thr	His	Tyr	Xaa	Glu	Ser	Trp	Xaa	Ala	Cys	Arg	Tyr
			20					25					30		

Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Asp	His	Phe	Ala	His
		35					40					45			

Xaa	Ser	Phe	Leu	Xaa	Glu	His	Ser	Lys	Lys	Met	Cys	Xaa
	50					55					60	

&lt;210&gt; 6630

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)



## 5869

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6630

Met	Gly	Xaa	Leu	Pro	Pro	Pro	Phe	Pro	Gly	Lys	Thr	Xaa	Leu	Thr	Met
1				5					10				15		

Ile	Xaa	Pro	Ser	Ser	Asn	Thr	Thr	His	Tyr	Leu	Glu	Ser	Trp	Xaa	Ala
			20					25					30		

Cys	Arg	Xaa	Arg	Xaa	Gly	Ile	Pro	Xaa	Ser	Xaa	His	Ala	Ser	Gly	Ser
		35					40					45			

Arg	Glu	Glu	Ala	Xaa	Ala	Thr	Met	Glu	Asn	Lys	Xaa	Ile	Cys	Ala	Leu
	50					55					60				

Xaa Leu Xaa Xaa Met Leu Ala Leu Gly Thr Leu Ala

5870

65

70

75

&lt;210&gt; 6631

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6631

Xaa	Gly	Gly	Xaa	Leu	Thr	Gly	Asn	Xaa	Asn	Asn	Phe	Thr	Gln	Glu	Thr
1				5					10					15	

Ala	Met	Thr	Met	Ile	Thr	Pro	Ser	Ser	Asn	Thr	Thr	His	Tyr	Arg	Glu
			20					25					30		

Ser	Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Xaa	Gly	Ile	Pro	Gly	Ser	Thr	His
			35				40					45			

Ala	Ser	Ala	Trp	Xaa	Ser	Xaa	Ile
			50			55	

5871

&lt;210&gt; 6632

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6632

Tyr	Asp	Ser	Leu	Phe	Gly	Lys	Val	Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser
1				5				10					15		

Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Gly	Ile	Phe	Val	Lys	Asn	Ile
			20					25					30		

Leu	His	Tyr	Leu	Gln	Asn	Lys	Glu	Thr	Arg	Xaa	Xaa
		35				40					

&lt;210&gt; 6633

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6633

Thr	Met	Leu	Arg	Gln	Ala	Leu	Ile	Arg	Leu	Thr	Ile	Gly	Lys	Cys	Trp
1				5				10					15		

Tyr	Val	Cys	Arg	Tyr	Arg	Xaa	Gly	Ile	Pro	Gly	Xaa	Thr	His	Ala	Ser
			20					25					30		

5872

Gly

&lt;210&gt; 6634

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6634

Val	Ser	Ile	Gly	Asn	Ser	Leu	Thr	Met	Ile	Thr	Pro	Ser	Ser	Asn	Thr
1				5					10					15	

Thr	His	Tyr	Arg	Glu	Xaa	Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile
			20					25					30		

Pro	Gly	Ser	Thr	His	Ala	Ser	Gly
		35					40

&lt;210&gt; 6635

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6635

Arg	Glu	Tyr	Ser	Phe	Leu	Leu	Glu	Thr	Ala	Ile	Thr	Met	Ile	Thr	Pro
1				5					10					15	

## 5873

Ser Ser Asn Thr Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr  
                     20                    25                    30

Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Glu Xaa Xaa Xaa Arg  
                     35                    40                    45

Thr Leu Lys Asn  
                     50

<210> 6636

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6636

Thr Val Ser Leu Gly Asn Ser Leu Thr Met Ile Thr Pro Ser Ser Asn  
           1                    5                    10                    15

Thr Thr His Tyr Arg Glu Xaa Trp Tyr Ala Cys Arg Tyr Arg Ser Gly  
                     20                    25                    30

Ile Pro Gly Ser Thr His Ala Ser Glu Ser Phe Lys Ser Trp Val Phe  
                     35                    40                    45

Arg Leu Leu Cys Ser Ser Cys Val Phe Asn Ile Leu  
           50                    55                    60

<210> 6637

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

5874

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (52)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (59)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (60)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6637  
 Glu Xaa Pro Xaa Phe Ile Leu Glu Thr Ala Ile Thr Met Ile Thr Pro  
     1                    5                    10                    15  
 Ser Ser Asn Thr Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr  
                     20                    25                    30  
 Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Gly Pro Xaa Lys Ile  
             35                    40                    45  
 Arg Lys His Xaa Ser Tyr Ser His Val Glu Xaa Xaa Ala  
       50                    55                    60

<210> 6638  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

## 5875

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6638

Ala	Xaa	Xaa	Pro	His	Phe	Xaa	Thr	Thr	His	Tyr	Arg	Glu	Xaa	Trp	Tyr
1				5					10					15	

Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Glu
		20					25						30		

Ile	Thr	Phe	Cys	Gly	His	Cys	Lys	Ile	Asn	Ile	Trp
	35						40				

&lt;210&gt; 6639

&lt;211&gt; 77

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6639

Ile	Ala	Ser	Gly	Arg	Ser	Arg	Gly	Ser	Lys	Leu	Thr	Tyr	Ala	Cys	Met
1				5					10					15	

Arg	Arg	His	Ser	Ser	Ser	Ile	Val	Ser	Pro	Lys	Phe	Asn	Ser	Leu	Ala
		20					25						30		

Xaa	Val	Leu	Gln	Arg	Arg	Asp	Trp	Glu	Asn	Pro	Gly	Val	Thr	Gln	Leu
	35						40					45			

Asn	Arg	Leu	Ala	Ala	His	Xaa	Pro	Phe	Ala	Ala	Gly	Val	Ile	Ala	Lys
	50					55					60				

Lys	Pro	Ala	Pro	Ile	Gly	Leu	Pro	Thr	Ser	Cys	Ala	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 5876

65

70

75

&lt;210&gt; 6640

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE



## 5877

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6640

Lys	Lys	Xaa	Xaa	Xaa	Xaa	Xaa	Lys	Lys	Lys	Gly	Gly	Arg	Ser	Xaa	Gly
1				5					10					15	

Ser	Lys	Leu	Thr	Tyr	Ala	Cys	Met	Arg	Arg	His	Xaa	Ser	Ser	Ile	Val
			20					25					30		

Ala	Pro	Lys	Phe	Asn	Tyr	Trp	Pro	Arg	Phe	Thr	Thr	Ser	Asp	Trp	Glu
		35					40					45			

Asn	Pro	Gly	Val	Thr	Gln	Leu	Asn	Arg	Leu	Gly	Xaa	Asn	Xaa	Leu	Leu
	50					55					60				

&lt;210&gt; 6641

&lt;211&gt; 72

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5878

<220>  
 <221> SITE  
 <222> (26)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (28)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (29)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (30)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (33)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (39)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (62)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6641  
 Tyr Ser Tyr Xaa Leu Pro Tyr Xaa Ile Phe Ile Leu Asn Lys Ile Ile  
     1                    5                    10                    15

Trp Arg Phe Leu Pro Gln Xaa Xaa Xaa Xaa Lys Xaa Xaa Xaa Pro Ser  
                     20                    25                    30

5879

Xaa Lys Gly Gly Arg Xaa Xaa Arg Ser Lys Leu Thr Tyr Ala Cys Met  
35 40 45

Gln Arg His Asn Ser Ser Ile Val Ser Leu Asn Ser Ile Xaa Trp Ala  
50 55 60

Val Val Leu Gln Arg Xaa Asp Trp  
65 70

<210> 6642

<211> 38

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$ 

&lt;221&gt; SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$ 

&lt;221&gt; SITE

$\langle 222 \rangle$  (8)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$ 

&lt;221&gt; SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

$\langle 222 \rangle$  (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$ 

&lt;221&gt; SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6642

Arg Thr Xaa Phe Trp Asn Thr Xaa Xaa Tyr Arg Glu Ser Trp Tyr Ala  
1 5 10 15

## 5880

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Gly Xaa  
                  20                  25                  30

Leu Xaa Gly Xaa Gly Leu  
                  35

<210> 6643

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

## 5881

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6643

Ile	Arg	Xaa	Xaa	Xaa	Leu	Arg	Xaa	Asp	Thr	Thr	His	Tyr	Arg	Glu	Ser
1				5					10					15	

Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Xaa	Thr	His	Ala
			20					25					30		

Ser	Val	Glu	Ile	Cys	Pro	Pro	Xaa	Ser	Arg	Pro	Xaa	Ser	Ser	Gln	Ser
		35					40					45			

Asn	Gly	Glu	Gly	Tyr	Ser	Xaa	Cys	Arg	Arg	Pro	Gln	Ala	Leu	Glu	Ala
	50					55					60				

Ala	Thr	Tyr	Leu	Asn	Pro	Val	Pro	Xaa	Arg	Ile	Leu	Leu	Lys	Pro	Phe
65					70					75					80

<210> 6644

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

## 5882

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6644

Pro	Xaa	Ala	Trp	Xaa	Leu	Xaa	Thr	Gln	Leu	Gly	Thr	Thr	His	Tyr	Arg
1				5					10					15	

Glu	Ser	Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr
			20					25					30		

His	Ala	Ser	Gly	Lys	Thr	Trp	Ile	Ile	Xaa	Val	Cys	Cys	Thr	Arg	Gly
		35					40					45			

Ser	Xaa	Gly	Xaa	Leu	Thr	Ala	Lys	Asn	Asp
	50						55		

<210> 6645

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

5883

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6645

Phe	Gly	Ile	Gln	Leu	Xaa	Xaa	Xaa	Arg	Leu	Gly	Thr	Thr	His	Tyr	Arg
1				5				10						15	

Glu	Ser	Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr
			20					25					30		

His	Ala	Xaa	Asp	Xaa	Met	Xaa	Leu	Trp	Leu	Leu	Gln
		35					40				

&lt;210&gt; 6646

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)

## 5884

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6646

Thr	Pro	Val	Gly	Thr	Thr	His	Tyr	Arg	Glu	Xaa	Trp	Tyr	Ala	Cys	Arg
1				5					10					15	

Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Gly	Ala	Glu	Xaa
			20				25						30		

Ser	Gly	Ile	Xaa	Leu	Glu	Ala	Gly	Lys	Asn	Gln	Xaa	Val	Leu	Xaa	Cys
		35					40					45			

Gly	Ser	Gly	Gln	Gly	Leu	Glu	Arg	Pro	Xaa	Pro
	50				55					

<210> 6647

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6647

Ile	Cys	Asn	Thr	Xaa	His	Tyr	Arg	Glu	Ser	Trp	Xaa	Ala	Cys	Arg	Tyr
1				5					10				15		



## 5885

Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Asp Ser Lys Asp Xaa  
                   20                  25                  30

Ser Val Asp Gly Ser Xaa  
                   35

<210> 6648

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6648

Pro Ile Phe Xaa Trp Lys His Ala Met Thr Met Ile Thr Pro Ser Ser  
       1                  5                  10                  15

Asn Thr Thr His Tyr Arg Xaa Ser Trp Xaa Ala Cys Arg Tyr Arg Ala  
                   20                  25                  30

Gly Ile Pro Gly Ser Thr His Ala Ser Gly Asp Xaa Xaa  
           35                  40                  45

<210> 6649

5886

<211> 92  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (67)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (83)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (85)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6649  
 Tyr Glu Xaa Xaa Lys Leu Leu Arg Glu Ser Xaa Asn Asn Phe Thr Gln  
     1                    5                    10                    15

Glu Thr Ala Met Thr Met Ile Thr Pro Ser Ser Asn Thr Thr His Tyr  
                     20                    25                    30

Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser  
                     35                    40                    45

Thr His Ala Ser Gly Pro Ser Arg Glu Ile Pro Arg Ser Leu His Leu  
                     50                    55                    60

Val Ile Xaa Thr Glu His Arg Pro Pro Thr Met Glu Leu Gly Leu Ser  
                     65                    70                    75                    80

Trp Ile Xaa Leu Xaa Ala Met Ile Lys Gly Val Asn

5887

85

90

&lt;210&gt; 6650

&lt;211&gt; 71

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (68)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (71)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6650

Leu	Pro	Xaa	Xaa	Xaa	Asn	Thr	Thr	His	Tyr	Arg	Glu	Ser	Trp	Tyr	Ala
1				5					10					15	

Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Glu	Lys
			20					25						30	

## 5888

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa Lys Lys  
35 40 45

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
50 55 60

Lys Lys Lys Xaa Gly Xaa Xaa  
65 70

<210> 6651

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

5889

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (61)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6651

Asn Leu Thr Gln Val Ala Ala Met Xaa Met Ile Thr Xaa Xaa Ser Asn  
1 5 10 15

Thr Thr His Tyr Arg Glu Ser Xaa Tyr Ala Cys Arg Tyr Arg Ser Gly  
20 25 30

Ile Pro Gly Ser Thr His Ala Leu Arg Tyr Cys Gly Pro Xaa Ala His  
35 40 45

Arg Phe Thr Ser Pro Pro Cys Xaa Ser Leu Xaa Leu Xaa Met Leu Met  
50 55 60

&lt;210&gt; 6652

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6652

Thr Cys Ser Pro Gly Lys Xaa Xaa Thr Ile Leu His Arg Lys Thr Ala  
1 5 10 15

## 5890

Met Thr Met Ile Thr Pro Ser Ser Asn Thr Thr His Tyr Arg Glu Ser  
                   20                  25                  30

Xaa Xaa Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala  
           35                  40                  45

Ser Gly Gln Ala  
           50

<210> 6653

<211> 39

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6653

Gln Glu Thr Ala Met Thr Met Ile Thr Pro Ser Ser Asn Thr Thr His  
   1                  5                  10                  15

Tyr Arg Asp Cys Trp Xaa Ala Cys Arg Tyr Arg Ala Gly Ile Xaa Gly  
           20                  25                  30

Ser Thr His Ala Ser Xaa Arg  
           35

<210> 6654

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

## 5891

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (58)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (61)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6654

Leu	Leu	Asp	Asn	Thr	Leu	Thr	Gln	Xaa	Thr	Ala	Met	Thr	Met	Ile	Thr
1				5					10					15	

Pro	Ser	Ser	Asn	Thr	Thr	His	Tyr	Arg	Xaa	Xaa	Trp	Tyr	Ala	Cys	Xaa
			20					25					30		

Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Val	Xaa	Arg	Leu
		35					40					45			

Leu	Ala	Thr	Cys	Phe	Ala	Arg	Xaa	Arg	Xaa	Thr	Tyr	Xaa	Thr
	50					55					60		

5892

&lt;210&gt; 6655

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6655

Xaa	Asn	Xaa	Xaa	Thr	Gln	Asp	Thr	Ala	Met	Thr	Met	Ile	Thr	Pro	Ser
1				5					10					15	

Ser	Asn	Thr	Thr	His	Tyr	Arg	Xaa	Ser	Cys	Tyr	Ala	Cys	Xaa	Tyr	Arg
			20					25					30		

Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Ala	Phe	Gly	Val	His	Lys
		35					40					45			

Met	Ser	Gly	Ser	Leu	Asn	Phe	Leu	Ser	Asn	Leu	Glu	Cys	Leu	Leu	His
	50					55					60				

Leu	Phe	Asn	Phe	Cys	Lys	Cys	Leu	Lys
65					70			

&lt;210&gt; 6656



## 5893

<211> 103  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (62)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (100)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (101)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (103)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6656  
 Leu Xaa Cys Thr Lys Lys Lys Lys Lys Gly Gly Arg Ser Arg Gly Ser  
     1                    5                    10                    15  
 Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser Ser Ile Val Ser  
                     20                    25                    30  
 Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu  
                     35                    40                    45  
 Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His Xaa Pro Phe  
                     50                    55                    60  
 Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln  
     65                    70                    75                    80  
 Gln Leu Arg Ser Leu Asn Gly Glu Trp Asp Ala Pro Cys Ser Gly Ala  
                     85                    90                    95  
 Leu Ser Ala Xaa Xaa Val Xaa  
                     100

5894

<210> 6657  
<211> 109  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (53)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (58)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (94)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (96)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (108)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (109)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6657  
Ile Ala Ser Gly Arg Ser Arg Gly Xaa Lys Leu Thr Tyr Ala Cys Met  
1 5 10 15

## 5895

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala  
20 25 30

Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu  
35 40 45

Asn Xaa Leu Ala Xaa His Pro Pro Phe Xaa Ser Trp Arg Asn Ser Glu  
50 55 60

Glu Ala Arg Thr Asp Arg Pro Phe Gln Gln Leu Arg Ser Leu Asn Gly  
65 70 75 80

Glu Trp Asp Ala Pro Cys Ser Gly Ala Leu Ser Ala Ala Xaa Val Xaa  
85 90 95

Val Thr Arg Ser Val Thr Val Thr Leu Ala Arg Xaa Xaa  
100 105

<210> 6658

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 5896

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6658

Lys	Lys	Lys	Xaa	Glu	Lys	Xaa	Lys	Gly	Gly	Arg	Ser	Arg	Gly	Ser	Lys
1				5				10					15		

Leu	Thr	Tyr	Ala	Cys	Met	Arg	Arg	His	Ser	Ser	Ser	Ile	Gly	Ser	Pro
			20					25					30		

Lys	Xaa	Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Arg	Asp	Trp	Glu	Asn
		35					40					45			

Pro	Gly	Val	Thr	Gln	Leu	Arg	Gly	Xaa	Gly	Ser	Thr	Xaa	Pro	Xaa	Arg
	50					55					60				

Gln	Leu	Ala	Glu	Glu	Arg	Arg	Gly	Ala	Ala	Pro	Ile	Ala	Leu	Ala	Asn
65					70					75					80

Ser Cys Ala Ala

&lt;210&gt; 6659

&lt;211&gt; 101

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

5897

<221> SITE  
 <222> (68)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (76)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (85)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (97)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (101)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6659  
 Lys Xaa Lys Lys Lys Gly Gly Arg Ser Xaa Gly Ser Lys Leu Thr  
   1                  5                  10                  15  
 Tyr Ala Cys Met Xaa Arg His Ser Ser Ser Ile Xaa Ser Pro Lys Phe  
                   20                  25                  30  
 Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly  
           35                  40                  45  
 Val Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Trp  
       50                  55                  60  
 Arg Asn Ser Xaa Lys Ala Arg Thr Asp Arg Pro Xaa Gln Gln Leu Arg  
   65                  70                  75                  80  
 Ser Leu Asn Gly Xaa Met Gly Thr Arg Pro Val Thr Gly Ala Leu Ser  
                   85                  90                  95  
 Xaa Ala Gly Trp Xaa  
           100

<210> 6660  
 <211> 92  
 <212> PRT

## 5898

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6660

Phe Xaa Xaa Xaa Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala  
1 5 10 15

Cys Met Arg Arg Tyr Ser Tyr Ser Ile Val Ser Pro Lys Phe Asn Ser  
20 25 30

Leu Ala Val Val Leu Gln Arg Xaa Asp Trp Glu Asn Pro Gly Val Thr  
35 40 45

Xaa Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Trp Cys Asn  
50 55 60

Ser Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Lys Leu

5899

65                      70                      75                      80

Asn Gly Glu Trp Asp Pro Ala Leu Xaa Arg Gly Xaa  
85 90

<210> 6661

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$ 

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

&lt;221&gt; SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6661

Asn Thr Lys Asn Pro Xaa Lys Lys Lys Lys Lys Lys Gly Gly Arg Ser  
1 5 10 15

Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser Ser  
20 25 30

Ile Val Xaa Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Xaa  
35 40 45

Xaa Trp Glu Asn Pro Gly Val Thr Gln Xaa Asn  
50 55

## 5900

&lt;210&gt; 6662

&lt;211&gt; 71

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6662

Ile Lys Val Ile Thr Ile Lys Lys Lys Lys Lys Lys Gly Gly Arg Ser  
1 5 10 15

Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser Ser  
20 25 30

Ile Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Arg  
35 40 45

Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His  
50 55 60

Pro Pro Phe Ala Ser Trp Pro  
65 70

&lt;210&gt; 6663

&lt;211&gt; 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6663

Xaa Xaa Asp Leu Xaa Cys Gln Xaa Asp Tyr Arg Glu Ser Trp Tyr Ala



**5901**

1	5	10	15
Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Gln			
	20	25	30
Leu Leu Arg Ser Glu Pro Phe Pro Leu His Phe Leu Phe Thr Gln Gly			
	35	40	45
Gly Ala Gly Ser Gly Gly Arg Lys Leu Gly Gly Gly Val			
	50	55	60

&lt;210&gt; 6664

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6664

Ile Ala Ser Gly Arg Ser Ile Gly Ser Lys Leu Thr Tyr Ala Cys Met
1 5 10 15

Arg Arg His Asn Ser Ser Xaa Val Ser Pro Lys Xaa Asn Ser Leu Ala
20 25 30

Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Xaa
35 40

&lt;210&gt; 6665

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

## 5902

<221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (10)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6665  
 Gly Xaa Xaa Leu Thr Phe Pro Phe Met Xaa Xaa His Asn Ser Ser Ile  
 1 5 10 15  
 Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Pro Asp  
 20 25 30  
 Trp Xaa Xaa Lys Asn Xaa Arg Asn Xaa Lys Val Arg Arg  
 35 40 45

## 5903

<210> 6666  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (39)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6666  
 Thr Ser Ser Arg Xaa Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr  
     1                    5                    10                    15  
 Tyr Ala Cys Met Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Xaa  
                     20                    25                    30  
 Asn Ser Leu Ala Val Val Xaa Gln Arg Arg Asp Trp Glu Asn Pro Arg  
                     35                    40                    45  
 Xaa Ser Cys Gly Ser  
                     50

<210> 6667  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 5904

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6667

Thr	Ser	Ser	Ser	Ile	Ala	Ser	Gly	Arg	Ser	Arg	Arg	Ser	Lys	Leu	Thr
1				5				10					15		

Tyr	Ala	Cys	Met	Arg	Arg	His	Ser	Ser	Ser	Ile	Val	Ser	Pro	Lys	Phe
			20				25					30			

Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Arg	Asp	Trp	Glu	Pro	Gln	Lys
		35					40					45			

Xaa	Xaa	Xaa
	50	

&lt;210&gt; 6668

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5905

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6668

Ser Leu Arg Tyr Ala Cys Met Arg Arg His Ser Ser Ser Ile Xaa Ser  
 1 5 10 15

Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu  
 20 25 30

Asn Xaa Xaa Lys Ser Cys Lys Arg Gly Xaa Glu Leu Asn Leu Val Xaa  
 35 40 45

Tyr Arg Arg Leu  
 50

&lt;210&gt; 6669

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6669

Leu Phe Ile Xaa Ala Pro Lys Phe Asn Ser Leu Gly Pro Ser Phe Thr  
 1 5 10 15

Arg Xaa Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Xaa Arg Leu Gly  
 20 25 30

Xaa Asn Pro Pro Phe Ala Asn Trp Gly Ile Thr Lys Lys Ala

## 5906

35

40

45

&lt;210&gt; 6670

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6670

Ile Gln Phe Thr Xaa Arg Xaa Leu Gln Xaa Xaa Asp Trp Glu Asn Pro

1

5

10

15

Gly Val Xaa Gln Leu Asn Arg Leu Ala Ala His Pro Pro

20

25

&lt;210&gt; 6671

&lt;211&gt; 158

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

## 5907

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5908

<220>  
<221> SITE  
<222> (70)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (78)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (81)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (101)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (104)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (110)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (111)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (118)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (135)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (136)  
<223> Xaa equals any of the naturally occurring L-amino acids



## 5909

<220>  
 <221> SITE  
 <222> (139)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (145)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6671  
 Arg Gly Trp Ala Xaa Xaa Pro Xaa Arg Arg Xaa Pro Val Glu Asp Xaa  
 1 5 10 15  
 His Leu Pro Arg Leu Val Ser Arg Thr Pro Gly Thr Xaa Pro Xaa Tyr  
 20 25 30  
 Xaa His Ser Tyr Leu Gly Ser Ala Arg Glu Arg Gln Ala Arg Ser Glu  
 35 40 45  
 Gly Xaa Ser Xaa Gly Gly Xaa Leu Glu Thr Pro Ser Lys Arg Ser Ala  
 50 55 60  
 Gln Ile Gly Pro Arg Xaa Ala Ser Tyr Tyr Ala Trp Ser Xaa Pro Gly  
 65 70 75 80  
 Xaa Tyr Lys Ala Gly Ser Ser Gln Asp Asp Gln Glu Asp Ala Cys Asp  
 85 90 95  
 Asp Ala Leu Ser Xaa Tyr Ser Xaa Leu Glu Leu Thr Arg Xaa Xaa Ser  
 100 105 110  
 Tyr Arg Gly Arg Ser Xaa Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg  
 115 120 125  
 Arg His Ser Ser Ser Ile Xaa Xaa Pro Lys Xaa Asn Ser Leu Ala Val  
 130 135 140  
 Xaa Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln  
 145 150 155

<210> 6672  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (14)

## 5910

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6672

Ser	Val	Asn	Val	Thr	Ile	Lys	Ser	Ser	Lys	Val	Lys	Lys	Xaa	Xaa	Lys
1					5				10					15	

Gly	Gly	Arg	Ser	Arg	Gly	Ser	Lys	Leu	Thr	Tyr	Ala	Cys	Met	Arg	Arg
			20					25					30		

His	Xaa	Ser	Ser	Ile	Val	Ser	Pro	Lys	Xaa	Asn	Ser	Leu	Ala	Gly	Xaa
		35						40				45			

Phe	Thr	Thr	Val	Val	Thr	Gly	Lys	Asn	Pro	Gly	Val	Thr	Gln	Leu	Asn
	50					55					60				

Arg	Leu	Cys	Xaa	His	Ile	Pro	Pro	Phe	Arg	Gln	Leu	Ala
65					70					75		

<210> 6673

<211> 77

<212> PRT

<213> Homo sapiens

<220>

## 5911

<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (58)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (61)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (64)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 5912

&lt;222&gt; (68)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (74)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6673

Gln	Gln	Xaa	Xaa	Ser	Leu	Asn	Gly	Xaa	Trp	His	Ala	Pro	Cys	Ser	Gly
1				5				10						15	

Ala	Leu	Xaa	Ala	Ala	Xaa	Val	Val	Asp	Thr	Arg	Ser	Val	Thr	Ala	Thr
			20					25					30		

Leu	Ala	Ser	Xaa	Leu	Arg	Pro	Leu	Leu	Xaa	Leu	Tyr	Phe	Pro	Ser	Phe
		35					40					45			

Leu	Ala	Thr	Phe	Ser	Arg	Leu	Ser	Pro	Xaa	Lys	Leu	Xaa	Asn	Arg	Xaa
	50					55					60				

Ala	Ser	Leu	Xaa	Gly	Val	Pro	Ile	Leu	Xaa	Ala	Phe	Tyr
65					70				75			

&lt;210&gt; 6674

&lt;211&gt; 90

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (74)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (83)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5913

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (84)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (89)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6674

Arg	His	Ser	Ser	Ile	Val	Ser	Pro	Lys	Phe	Asn	Ser	Leu	Ala	Val
1				5				10					15	

Val	Leu	Gln	Arg	Arg	Asp	Trp	Glu	Asn	Pro	Gly	Val	Thr	Gln	Leu	Asn
			20					25					30		

Arg	Leu	Ala	Ala	His	Xaa	Pro	Phe	Ala	Ser	Trp	Xaa	Asn	Ser	Glu	Glu
		35					40					45			

Ala	Arg	Thr	Asp	Arg	Thr	Ser	Gln	Gln	Leu	Arg	Ser	Leu	Asn	Gly	Glu
		50				55					60				

Trp	Asp	Ala	Pro	Cys	Ser	Gly	Ala	Leu	Xaa	Ala	Ala	Gly	Val	Val	Val
65					70					75				80	

Thr	Arg	Xaa	Xaa	Thr	Ala	Thr	Leu	Xaa	Ser
				85				90	

&lt;210&gt; 6675

&lt;211&gt; 63

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5914

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6675  
Cys Met Arg Arg His Ser Xaa Xaa Ile Xaa Xaa Pro Lys Phe Asn Ser  
1 5 10 15  
Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr  
20 25 30  
Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Trp Arg Asn  
35 40 45  
Ser Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Ser  
50 55 60

<210> 6676  
<211> 137  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (119)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (124)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (132)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 5915

&lt;221&gt; SITE

&lt;222&gt; (133)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6676

Ile Lys Leu Gly Asn Gln Lys Lys Lys Lys Lys Xaa Lys Gly Gly Arg  
 1 5 10 15

Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser  
 20 25 30

Ser Ile Val Xaa Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg  
 35 40 45

Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala  
 50 55 60

His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Thr Asp  
 65 70 75 80

Arg Pro Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp Asp Ala Pro  
 85 90 95

Cys Ser Gly Ala Leu Ser Ala Ala Gly Val Val Val Thr Pro Gln Arg  
 100 105 110

Asp Pro Leu His Leu Pro Xaa Pro Tyr Arg Pro Xaa Pro Ser Leu Ser  
 115 120 125

Ser Leu Pro Xaa Xaa Pro Arg Ser Pro  
 130 135

&lt;210&gt; 6677

&lt;211&gt; 92

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (61)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6677

Glu Asn Pro Gly Gly Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro

## 5916

1 5 10 15  
Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Thr Asp Arg Pro Ser  
20 25 30  
Gln Gln Leu Arg Xaa Leu Asn Gly Glu Trp Asp Ala Pro Cys Ser Gly  
35 40 45  
Ala Leu Ser Ala Ala Gly Val Val Gly Thr Arg Ser Xaa Thr Ala Thr  
50 55 60  
Leu Ala Ala Pro Ser Ala Ala Leu Ser Leu Leu Pro Ser Phe Ser His  
65 70 75 80  
Val Gly Gly Phe Pro Val Ser Ser Asn Gly Ala Pro  
85 90

<210> 6678

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6678

Leu Ile Asp Arg Ser Xaa Arg Tyr Leu Pro Leu Xaa Ile Ile Leu Lys



## 5917

1		5						10					15		
Thr	Leu	Xaa	Ala	Met	Val	Phe	Asn	Thr	Phe	Asn	Val	Leu	His	Trp	Gln
			20					25					30		
Arg	Ile	Xaa	Asp	Gln	Ser	Leu	Pro	Tyr	His	Asn	Ile	Thr	Tyr	Xaa	
		35					40					45			

<210> 6679

<211> 147

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 5918

<221> SITE  
 <222> (127)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (140)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (145)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 6679  
 Thr Pro Pro Tyr Cys Pro Lys Ile Gln Ser Pro Pro Tyr Ser Ser Gln  
 1 5 10 15  
 Gly Thr Thr Ser Asp Ala Ser Leu Trp Thr Pro Pro Gln Gly Cys Pro  
 20 25 30  
 Trp Thr Gln Xaa Ser Pro Glu Pro Arg Asn Pro Pro Val Pro Trp Thr  
 35 40 45  
 Xaa Val Pro Ala Thr Leu Glu Leu Ala Ala Val Tyr Gln Gly Leu Ser  
 50 55 60  
 Val Ser Pro Glu Pro Cys Leu Ser Leu Gly Ala Pro Ser Leu Leu Pro  
 65 70 75 80  
 His Xaa Xaa Cys Gln Arg Leu Gln Pro Gln Thr Xaa Gly Xaa Cys Trp  
 85 90 95  
 Ser His Ser Ala Glu Val Val Pro Asn Ser Glu Asp Gln Gly Pro Gly  
 100 105 110  
 Ala Ala Phe Gln Leu Ser Glu Xaa Ser Pro Thr Gln Ser Ser Xaa Leu  
 115 120 125  
 Gln Phe Ser Gly Cys Pro Glu Leu Trp Gln Glu Xaa Leu Glu Gly Ala  
 130 135 140  
 Xaa Leu Gly  
 145

<210> 6680  
 <211> 172  
 <212> PRT  
 <213> Homo sapiens

## 5919

<220>  
 <221> SITE  
 <222> (10)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (158)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (159)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (167)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (170)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (172)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6680  
 Phe Trp Leu Ala Gly Pro Lys Glu Glu Xaa Met Asp Xaa Asp Ile Pro  
     1                    5                    10                    15  
 Ala Val Lys Val Lys Glu Glu Pro Arg Asp Glu Glu Glu Glu Ala Lys  
                     20                    25                    30  
 Met Lys Ala Pro Pro Lys Ala Ala Arg Lys Thr Pro Gly Leu Pro Lys  
                     35                    40                    45  
 Asp Val Ser Val Ala Glu Leu Leu Arg Glu Leu Ser Leu Thr Lys Glu  
                     50                    55                    60  
 Glu Glu Leu Leu Phe Leu Gln Leu Pro Asp Thr Leu Pro Gly Gln Pro  
     65                    70                    75                    80

## 5920

Pro Thr Gln Asp Ile Lys Pro Ile Lys Thr Glu Val Gln Gly Glu Asp  
                     85                    90                    95

Gly Gln Val Val Leu Ile Lys Gln Glu Lys Asp Arg Glu Ala Lys Leu  
                     100                    105                    110

Ala Glu Asn Ala Cys Thr Leu Ala Asp Leu Thr Glu Gly Gln Val Gly  
                     115                    120                    125

Lys Leu Leu Ile Arg Lys Ser Gly Arg Val Gln Leu Leu Leu Gly Lys  
                     130                    135                    140

Val Thr Leu Asp Val Asp His Gly Asn Cys Leu Leu Leu Xaa Xaa Gly  
                     145                    150                    155                    160

Ala Gly Val Arg Gly Pro Xaa Arg Gln Xaa Asp Xaa  
                     165                    170

<210> 6681

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6681

Ile Ala Ala Ala Val Trp Arg Leu Asn Arg Gly Leu Ser Gln Ala  
                     1                    5                    10                    15

Ala Leu Leu Leu Leu Arg Gln Pro Gly Ala Arg Gly Leu Ala Arg Ser

## 5921

20 25 30  
 Val Ser Thr Trp Ala Pro Gly Gly Phe Pro Lys Gly Asp Xaa Gly Cys  
 35 40 45  
 Lys Gly Tyr Leu Xaa Xaa Xaa  
 50 55

<210> 6682  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 6682  
 Gly Leu Gln Ser Asn Met Pro Lys Phe Tyr Cys Asp Tyr Cys Asp Thr  
 1 5 10 15  
 Tyr Leu Thr His Asp Ser Pro Ser Val Arg Lys Thr His Cys Ser Gly  
 20 25 30  
 Arg Lys His Lys Glu Asn Val Lys Asp Tyr Tyr Leu Leu Leu His Ser  
 35 40 45  
 Leu Leu Leu Leu Leu Gln Gly Arg  
 50 55

<210> 6683  
 <211> 102  
 <212> PRT  
 <213> Homo sapiens

<400> 6683  
 Ser Phe Arg Arg Pro Met Ala Ser Ala Ser Thr Gln Pro Ala Ala Leu  
 1 5 10 15  
 Ser Ala Glu Gln Ala Lys Val Val Leu Ala Glu Val Ile Gln Ala Phe  
 20 25 30  
 Ser Ala Pro Glu Asn Ala Val Arg Met Asp Glu Ala Arg Asp Asn Ala  
 35 40 45  
 Cys Asn Asp Met Gly Val Leu Lys Phe Ala Arg Leu Val Lys Ser Tyr  
 50 55 60  
 Glu Ala Gln Asp Pro Glu Ile Ala Ser Leu Ser Gly Lys Leu Lys Ala  
 65 70 75 80

**5922**

Leu Phe Leu Pro Pro Met Thr Leu Pro Pro His Gly Pro Ala Ala Gly  
                             85                            90                            95

Gly Ser Val Ala Ala Ser  
                             100

<210> 6684

<211> 97 ,

<212> PRT

<213> Homo sapiens

<400> 6684

Pro Arg Val Arg Ala Asp Ile Asn Thr Lys Trp Ala Ala Thr Arg Trp  
     1                            5                            10                            15

Ala Lys Lys Ile Glu Ala Arg Glu Arg Lys Ala Lys Met Thr Asp Phe  
                             20                            25                            30

Asp Arg Phe Lys Val Met Lys Ala Lys Lys Met Arg Asn Arg Ile Ile  
                             35                            40                            45

Lys Asn Glu Val Lys Lys Leu Gln Lys Ala Ala Leu Leu Lys Ala Ser  
                             50                            55                            60

Pro Lys Lys Ala Pro Gly Thr Lys Gly Thr Ala Ala Ala Ala Ala Ala  
     65                            70                            75                            80

Ala Ala Ala Ala Ala Ala Lys Val Pro Ala Lys Lys Ile Thr Ala Ala  
                             85                            90                            95

Asn

<210> 6685

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5923

&lt;400&gt; 6685

Asn Ala Xaa Ile Ser Ser Leu Gly Ala Pro Gly Thr Gly Xaa Glu Phe  
1 5 10 15

Pro Gly Arg Pro Thr Arg Pro Leu Met Glu Lys Glu Phe Pro Gly Phe  
20 25 30

Leu Glu Asn Gln Lys Asp Pro Leu Ala Val Asp Lys Ile Met Lys Asp  
35 40 45

Leu Asp Gln Cys Arg Asp Gly Lys Val Gly Phe Gln Ser Phe Phe Ser  
50 55 60

Leu Ile Ala Gly Leu Thr Ile Ala Cys Asn Asp Tyr Phe Val Val His  
65 70 75 80

Met Lys Gln Lys Gly Lys Lys  
85

&lt;210&gt; 6686

&lt;211&gt; 106

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5924

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (96)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (98)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (102)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (106)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6686  
 Thr Ile Gly Xaa Gly Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro  
 1 5 10 15  
 Gly Arg Pro Thr Leu Ser Ser Ala Phe Pro Leu Xaa Thr Ser Thr Leu  
 20 25 30  
 Ile Gln Xaa Lys Tyr Asp Pro Ser Leu Lys Pro Leu Xaa Xaa Ser Tyr  
 35 40 45  
 Asp Gln Ala Thr Ser Leu Arg Ile Leu Asn Asn Gly His Ala Phe Asn  
 50 55 60  
 Xaa Glu Leu Asp Asp Ser Xaa Asp Lys Ala Val Leu Lys Gly Gly Pro  
 65 70 75 80  
 Leu Asp Gly Thr Asn Arg Trp Ile Lys Leu His Phe Asn Trp Gly Xaa  
 85 90 95  
 Leu Xaa Gly Gln Arg Xaa Lys Thr Tyr Xaa



## 5925

100

105

&lt;210&gt; 6687

&lt;211&gt; 110

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (57)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (85)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (86)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (97)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5926

&lt;222&gt; (103)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6687

Ser Ser Arg Leu Ala Phe Pro Lys Ala Thr Glu Glu Xaa Lys Ala Ser  
 1 5 10 15

Lys Pro His His Glu Trp Pro Ser Gly Thr Xaa Phe Ala Arg Thr Gly  
 20 25 30

Asp Pro Asn Ser Xaa Ala Leu Pro Pro Trp Pro Gln Phe Asn Gln Ala  
 35 40 45

Glu Thr Ile Ser Gly Asn Gln Pro Xaa Ala Xaa Gly Arg Thr Lys Phe  
 50 55 60

Gln Gly Gly Leu Asp Ala Ile Leu Val Lys Asn Pro Pro Gln Gln Asn  
 65 70 75 80

Thr Thr Trp Pro Xaa Xaa Gln Lys Asn Arg Lys Gly Pro Gly Gly Thr  
 85 90 95

Xaa Glu Gly Arg Pro Lys Xaa Phe Leu Gly Leu Gly Gln Thr  
 100 105 110

&lt;210&gt; 6688

&lt;211&gt; 129

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6688

Gly Phe Asn Asp Glu Leu Glu Ala Phe Lys Glu Arg Val Arg Gly Arg  
 1 5 10 15

Ala Lys Leu Arg Ile Glu Lys Ala Met Lys Glu Tyr Glu Glu Glu  
 20 25 30

Arg Lys Lys Arg Leu Gly Pro Gly Gly Leu Asp Pro Val Glu Val Tyr  
 35 40 45

Glu Ser Leu Pro Glu Glu Leu Gln Lys Cys Phe Asp Val Lys Asp Val  
 50 55 60

Gln Met Leu Gln Asp Ala Ile Ser Lys Met Asp Pro Thr Asp Ala Lys  
 65 70 75 80

Tyr His Met Gln Arg Cys Ile Asp Ser Gly Leu Trp Val Pro Asn Ser  
 85 90 95

**5927**

Lys Ala Lys Arg Arg Pro Arg Arg Glu Arg Arg Gln Val Leu Gly Thr  
                   100                  105                  110

His Tyr Trp Lys Leu Phe Pro Arg Arg Ala Met Arg Arg Met Ser Ser  
           115                  120                  125

Val

<210> 6689

<211> 177

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (163)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6689

Gly Phe Ile Ile Asp Asp Ser Val Leu Tyr Ser Gly Ala Ser Leu Asn  
   1                  5                  10                  15

Asp Val Tyr Leu His Gln His Asp Lys Tyr Arg Tyr Asp Arg Tyr His  
           20                  25                  30

Leu Ile Arg Asn Arg Lys Met Ser Asp Ile Met Phe Glu Trp Val Thr  
           35                  40                  45

Gln Asn Ile Met Asn Gly Arg Gly Val Asn Arg Leu Asp Asp Val Asn  
           50                  55                  60

Arg Pro Lys Ser Pro Glu Ile Lys Asn Asp Ile Arg Leu Phe Arg Gln  
   65                  70                  75                  80

Glu Leu Arg Asp Ala Ala Tyr His Phe Gln Gly Asp Ala Asp Asn Asp  
                   85                  90                  95

Gln Leu Ser Val Thr Pro Leu Val Gly Leu Gly Lys Ser Ser Leu Leu  
           100                  105                  110

Asn Lys Thr Ile Phe His Leu Met Pro Cys Ala Glu Gln Lys Leu Thr  
           115                  120                  125

Ile Cys Thr Pro Tyr Phe Asn Leu Pro Ala Ile Leu Val Arg Asn Ile  
           130                  135                  140

Ile Gln Leu Leu Arg Glu Gly Lys Lys Val Glu Ile Ile Val Gly Asp  
   145                  150                  155                  160

## 5928

Lys Thr Xaa Asn Asp Phe Tyr Ile Pro Glu Asp Glu Pro Phe Lys Ile  
                                   165                                  170                                  175

Ile

<210> 6690

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6690

His Glu Leu Val Arg Leu Xaa Gly Gly Cys Xaa Leu Leu Arg Cys Ile  
       1                                  5                                  10                                  15

Pro Ala Leu Asp Ser Leu Thr Pro Ala Asn Glu Asp Gln Lys Ile Gly  
                                   20                                  25                                  30

Ile Glu Ile Ile Lys Arg Thr Leu Lys Ile Pro Ala Met Thr Ile Ala  
                                   35                                  40                                  45

Lys Asn Ala Gly Val Glu Gly Ser Leu Ile Val Glu Lys Ile Met Gln  
                                   50                                  55                                  60

Ser Ser Ser Glu Val Gly Tyr Asp Ala Met Ala Gly Asp Phe Val Lys  
       65                                  70                                  75                                  80

Tyr Gly Gly Lys Arg Glu Ser Leu Thr Gln Gln Arg Leu  
                                   85                                  90

<210> 6691

<211> 105

<212> PRT

<213> Homo sapiens

<220>

## 5929

<221> SITE  
 <222> (10)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (30)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (58)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (84)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (91)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (105)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6691  
 Gly Val Thr Phe Pro Val Pro Gln Ser Xaa Asp Ser Leu Leu Arg Ala  
 1 5 10 15  
 Val Gly Pro Cys Pro Gln Gln Leu Gly Thr Gln Thr Thr Xaa Glu Arg  
 20 25 30  
 Glu Ser Gln Ala Ser Asn Thr Lys Val Thr Arg Asp Xaa Pro Lys Ser  
 35 40 45  
 Cys Asp Lys Thr Thr His Ala His Arg Xaa Arg Pro Glu Leu Leu Gly  
 50 55 60

## 5930

Gly Pro Gln Leu Leu Phe Xaa Gln Asn Pro Arg His Ala Met Ile Ser  
 65 70 75 80

Arg Pro Leu Xaa His Met Arg Gly Gly Asp Xaa Ser His Glu Asp Pro  
 85 90 95

Glu Ala Ser Gln Leu Asp Val Asp Xaa  
 100 105

<210> 6692

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6692

Arg Arg Val Ser Pro Gly Lys Asn Phe Pro Pro Gly Gly Val Pro Gly  
 1 5 10 15

Thr Pro Gln Thr Gly Arg Phe Ser Gly Ala Pro Gly Gly Gly Lys Arg  
 20 25 30

Gly Pro Ser Leu Arg Lys Lys Lys Gly Gly Gly Pro Ala Gln Phe Gly  
 35 40 45

Pro Xaa Ser Pro Lys Pro Gln Phe Arg Gly Gln Gly Pro Gly Ile Ser  
 50 55 60

Pro Trp Val Leu Leu Gly Ile Gln Pro Gly Gly Trp Gly Glu Arg Gly  
 65 70 75 80

Glu Thr Pro Ser Gly Arg Ser Pro Cys Arg Gly Xaa Ala Pro Leu Gly  
 85 90 95

## 5931

Gly Gly Arg Thr Thr Ser Lys Leu Leu Glu Thr Xaa Ser Pro Glu Cys  
100 105 110

Leu

<210> 6693

<211> 215

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (152)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (158)

## 5932

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (194)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6693

Glu	Phe	Ser	Tyr	Glu	Leu	Ser	Lys	Val	Glu	Gly	Lys	Thr	Gly	Thr	Pro
1				5					10					15	

Glu	Lys	Pro	Leu	Ser	Asp	Leu	Gly	Leu	Leu	Ser	Tyr	Arg	Ser	Tyr	Trp
			20				25						30		

Ser	Gln	Thr	Ile	Leu	Glu	Ile	Leu	Met	Gly	Leu	Lys	Ser	Glu	Ser	Gly
	35						40					45			

Glu	Arg	Pro	Gln	Ile	Thr	Ile	Asn	Glu	Ile	Ser	Glu	Ile	Thr	Ser	Ile
	50					55					60				

Lys	Lys	Glu	Asp	Val	Ile	Ser	Thr	Leu	Gln	Tyr	Leu	Asn	Leu	Ile	Asn
65					70					75				80	

Tyr	Tyr	Lys	Gly	Gln	Tyr	Ile	Leu	Thr	Leu	Ser	Glu	Asp	Ile	Val	Asp
				85					90					95	

Gly	His	Glu	Arg	Ala	Met	Leu	Lys	Arg	Leu	Leu	Arg	Ile	Arg	Leu	Gln
			100					105					110		

Val	Ser	Ala	Xaa	Ile	Pro	Arg	Asp	Trp	Xaa	Lys	Lys	Gly	Gly	Xaa	Gly
		115					120					125			

Asp	Gln	Thr	Leu	Ala	Thr	Gly	Ile	Ala	Gln	Asp	Gly	Xaa	Gln	Gly	Leu
	130					135					140				

Gly	Gly	Leu	Asn	Ser	Pro	Xaa	Xaa	Ala	Pro	Xaa	Trp	Lys	Xaa	Pro	Thr
145					150					155				160	

Lys	Ala	Thr	Phe	Lys	Gly	Lys	Met	Gly	Leu	Glu	Gly	Gln	Val	Gln	Lys
			165					170						175	

Arg	Asp	Arg	Thr	Arg	Ala	Leu	Ala	Gly	Gly	Pro	Thr	Gly	Trp	Pro	Asn
			180					185					190		

Thr	Xaa	Ala	Lys	Leu	Pro	Gly	Leu	Arg	Pro	Thr	Phe	Lys	Gly	Gln	Xaa
		195					200					205			



## 5933

Gly Pro Lys Ala Gln Gly Phe  
 210 215

<210> 6694

<211> 94

<212> PRT

<213> Homo sapiens

<400> 6694

Gly Tyr Thr Arg Ala Glu Tyr Glu Ser Glu Ala Glu Gly Val Met Ala  
 1 5 10 15

Gly Gln Ala Phe Arg Lys Phe Leu Pro Leu Phe Asp Arg Val Leu Val  
 20 25 30

Glu Arg Ser Ala Ala Glu Thr Val Thr Lys Gly Gly Ile Met Leu Pro  
 35 40 45

Glu Lys Ser Gln Gly Lys Val Leu Gln Ala Thr Val Val Ala Val Gly  
 50 55 60

Ser Gly Ser Lys Gly Lys Gly Gly Glu Ile Gln Pro Val Ser Val Lys  
 65 70 75 80

Val Gly Asp Lys Val Leu Leu Pro Glu Tyr Gly Gly Pro Lys  
 85 90

<210> 6695

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6695

Gly Ser Val Ser Pro Val Pro Val Ala Pro Leu Pro Pro Xaa Thr Met  
 1 5 10 15

## 5934

Gly Pro Gly Pro Arg Leu Leu Leu Pro Leu Val Leu Cys Val Gly Leu  
20 25 30

Gly Ala Leu Val Phe Ser Ser Gly Ala Glu Gly Phe Arg Lys Arg Gly  
35 40 45

Pro Ser Val Thr Ala Lys Val Phe Phe Asp Val Arg Ile Gly Asp Lys  
50 55 60

Asp Val Gly Arg Ile Val Ile Gly Leu Phe Gly Lys Val Val Pro Lys  
65 70 75 80

Thr Val Glu Asn Phe Val Ala Leu Ala Thr Gly Glu Lys Gly Tyr Gly  
85 90 95

Tyr Lys Gly Ser Lys Phe Ser Ser Cys His Gln Gly Phe His Asp Xaa  
100 105 110

<210> 6696

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

## 5935

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6696

Trp	Arg	Asp	Val	Ser	Arg	Glu	Ser	Thr	Tyr	Gln	Gly	His	His	Thr	Pro
1				5					10					15	

Pro	Val	Gln	Lys	Gly	Leu	Arg	Tyr	Gly	Ile	Ile	Xaa	Phe	Xaa	Thr	Xaa
			20					25					30		

Xaa	Val	Phe	Phe	Phe	Xaa	Gly	Phe	Phe
		35					40	

<210> 6697

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6697

Trp	Arg	Asp	Val	Xaa	Arg	Glu	Ser	Thr	Tyr	Gln	Gly	His	His	Thr	Pro
1				5					10					15	

Pro	Val	Gln	Lys	Gly	Leu	Arg	Tyr	Gly	Ile	Ile	Leu	Phe	Ile	Thr	Ser
			20					25					30		

Xaa	Ile	Phe	Phe	Phe	Ala	Gly	Phe	Phe
		35					40	

<210> 6698

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5936

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (90)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6698

Ala	His	His	Ser	Leu	Ile	Xaa	Asn	Asn	Arg	Asn	Gln	Ile	Ile	Gln	Ala
1				5					10					15	

Leu	Leu	Ile	Thr	Ile	Leu	Leu	Gly	Leu	Tyr	Phe	Thr	Leu	Leu	Gln	Ala
			20					25						30	

Ser	Xaa	Tyr	Phe	Glu	Ser	Pro	Phe	Thr	Ile	Ser	Asp	Gly	Ile	Tyr	Gly
			35				40					45			

Ser	Thr	Phe	Phe	Val	Ala	Thr	Gly	Phe	His	Gly	Leu	His	Val	Ile	Ile
	50					55					60				

Gly	Ser	Thr	Phe	Leu	Thr	Ile	Cys	Phe	Ile	Arg	Gln	Leu	Ile	Phe	His
65					70					75				80	

Phe	Thr	Ser	Lys	His	His	Phe	Gly	Phe	Xaa	Thr	Ala	Ala
			85						90			

&lt;210&gt; 6699

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6699

Trp	Arg	Asp	Val	Thr	Arg	Glu	Ser	Thr	Tyr	Gln	Gly	His	His	Thr	Pro
1				5					10					15	

Pro	Val	Gln	Lys	Gly	Leu	Arg	Tyr	Gly	Ile	Ile	Leu	Phe	Ile	Thr	Ser
			20					25					30		

Glu	Val	Phe	Phe	Phe	Ala	Gly	Phe	Phe
		35				40		

&lt;210&gt; 6700

&lt;211&gt; 39

&lt;212&gt; PRT

5937

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6700

Ala	Gly	Ile	Leu	Xaa	Thr	Ala	Leu	Ser	Leu	Leu	Ile	Arg	Ala	Glu	Leu
1				5					10					15	

Gly	Gln	Pro	Xaa	Asn	Leu	Leu	Xaa	Asn	Glu	His	Ile	Tyr	Asn	Val	Ile
			20					25					30		

Val	Thr	Ala	Met	His	Leu	Leu
			35			

&lt;210&gt; 6701

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6701

Thr	Ile	Leu	Pro	Ala	Ile	Ile	Leu	Val	Leu	Ile	Ala	Leu	Pro	Ser	Leu
1				5					10					15	

Arg	Ile	Leu	Tyr	Ile	Thr	Asp	Glu	Val	Asn	Asp	Pro	Ser	Leu	Thr	Ile
			20					25					30		

Lys	Ser	Ile	Gly	His	Gln	Trp	Tyr
			35			40	

&lt;210&gt; 6702

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

## 5938

&lt;400&gt; 6702

Thr Ile Leu Pro Ala Ile Ile Leu Val Leu Ile Ala Leu Pro Ser Leu  
 1 5 10 15  
 Arg Ile Leu Tyr Ile Thr Asp Glu Val Asn Asp Pro Ser Leu Thr Ile  
 20 25 30  
 Lys Ser Ile Gly His Gln Trp Tyr  
 35 40

&lt;210&gt; 6703

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6703

Ala Val Pro Thr Leu Gly Leu Lys Thr Asp Ala Ile Pro Gly Arg Leu  
 1 5 10 15  
 Asn Gln Thr Thr Phe Thr Ala Thr Arg Pro Gly Val Tyr Tyr Gly Gln  
 20 25 30  
 Cys Ser Glu Ile Cys Gly Ala Asn His Ser Phe Met Pro Ile Val Leu  
 35 40 45  
 Glu Leu Ile Pro Leu Lys Ile Phe Glu Ile Gly Xaa Val Phe Thr Leu  
 50 55 60

&lt;210&gt; 6704

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6704

Thr Tyr Glu Tyr Thr Asp Tyr Gly Gly Leu Ile Phe Asn Ser Tyr Ile  
 1 5 10 15  
 Leu Pro Pro Leu Phe Leu Glu Pro Gly Asp Leu Arg Leu Leu Asp Val  
 20 25 30

## 5939

Asp Asn Arg Val Val Leu Pro Ile Glu Ala Pro Ile Arg Ile Ile Ile  
35 40 45

Thr Ser Gln Asp Val Leu His Ser  
50 55

<210> 6705

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6705

His Val Thr Leu Trp Phe Leu Cys Phe Ile Asn Tyr Leu Ile Tyr Gln  
1 5 10 15

Tyr Gly Thr Arg Phe Xaa Lys Lys Xaa Asp Ser Xaa Asp Pro Tyr Ile  
20 25 30

Tyr Thr Pro Phe Gly Thr Gly Pro Lys Thr Ala Leu Ala  
35 40 45

<210> 6706

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5940

&lt;400&gt; 6706

His Leu Trp Xaa Leu Ile Glu Gly Gly Ala His Ile Tyr Val Cys Gly  
1 5 10 15

Asp Ala Arg Asn Met Ala Arg Asp Val Gln Asn Thr Phe Tyr Asp Ile  
20 25 30

Val Ala Glu Leu Gly Ala Met Glu His Ala Gln Ala Val Asp Tyr Ile  
35 40 45

Lys Lys Leu Met Thr Lys Gly Arg Tyr Ser Leu Asp Val Trp Ser  
50 55 60

&lt;210&gt; 6707

&lt;211&gt; 158

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (111)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (112)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (123)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;



## 5941

<221> SITE  
 <222> (125)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (129)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (134)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (138)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (140)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (154)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6707  
 Xaa Pro Pro Glu Leu His Asp Xaa Ala Lys Xaa Pro Tyr Thr Glu Ala  
 1 5 10 15  
 Val Ile Tyr Glu Ile Gln Arg Phe Ser Asp Leu Leu Pro Met Gly Val  
 20 25 30  
 Pro His Ile Val Thr Gln His Thr Ser Phe Arg Gly Tyr Ile Ile Pro  
 35 40 45  
 Lys Asp Thr Glu Val Phe Leu Ile Leu Ser Thr Ala Leu His Asp Pro  
 50 55 60  
 His Tyr Phe Glu Lys Pro Asp Ala Phe Asn Pro Asp His Phe Leu Asp  
 65 70 75 80  
 Ala Asn Gly Ala Leu Lys Lys Thr Glu Ala Phe Ile Pro Phe Ser Leu  
 85 90 95  
 Gly Lys Arg Ile Cys Leu Gly Glu Gly Ile Ala Arg Ala Glu Xaa Xaa  
 100 105 110

## 5942

Pro Leu Phe Thr Thr Ile Leu Gln Asn Phe Xaa Met Xaa Ser Pro Val  
 115 120 125

Xaa Pro Glu Asp Ile Xaa Leu Thr Pro Xaa Glu Xaa Gly Val Gly Gln  
 130 135 140

Lys Asn Pro Pro Thr Tyr Gln Asn Pro Xaa Ser Trp Pro Arg  
 145 150 155

&lt;210&gt; 6708

&lt;211&gt; 89

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6708

Phe Ser Ala Pro Ser Arg Ile Ser Ala Trp Phe Gly Pro Pro Ala Ser  
 1 5 10 15

Thr Pro Ala Ser Thr Met Ser Ile Arg Val Thr Gln Lys Ser Tyr Lys  
 20 25 30

Val Ser Thr Ser Gly Pro Arg Ala Phe Ser Ser Arg Ser Tyr Thr Ser  
 35 40 45

Gly Pro Gly Ser Arg Ile Ser Ser Ser Ser Phe Ser Arg Val Gly Lys  
 50 55 60

Gln Gln Leu Ser Arg Trp Pro Gly Arg Ala Ala Met Val Gly Pro Ala  
 65 70 75 80

Ala Trp Glu Ala Ser Pro Glu Leu Arg  
 85

&lt;210&gt; 6709

&lt;211&gt; 138

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6709

Arg Ser Trp Gly Ala Thr Gln Pro Gly Ser Gln Ala Pro Pro Arg Gln  
 1 5 10 15

Leu Ser Arg Phe Ser His Ser Phe Pro Thr Arg Leu Leu Ser Pro Met  
 20 25 30

Ala His Ala Thr Leu Ser Ala Ala Pro Ser Asn Pro Arg Leu Leu Arg  
 35 40 45

## 5943

Val Ala Leu Leu Leu Leu Leu Leu Val Ala Ala Ser Arg Arg Ala Ala  
 50 55 60

Gly Ala Ser Val Val Thr Glu Leu Arg Cys Gln Cys Leu Gln Thr Leu  
 65 70 75 80

Gln Gly Ile His Leu Lys Asn Ile Gln Ser Val Asn Val Arg Ser Pro  
 85 90 95

Gly Pro His Cys Ala Gln Thr Glu Val Ile Ala Thr Leu Lys Asn Gly  
 100 105 110

Lys Lys Ala Cys Leu Asn Pro Ala Ser Pro Met Val Gln Lys Ile Ile  
 115 120 125

Glu Lys Ile Leu Asn Lys Gly Ser Thr Asn  
 130 135

&lt;210&gt; 6710

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (75)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6710

Gly Thr Phe Arg Asn Asp Asn Ser Ala Glu Met Cys Arg Lys Cys Ser  
 1 5 10 15

Thr Gly Cys Pro Arg Arg Met Val Lys Val Lys Asp Cys Thr Pro Trp  
 20 25 30

Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Asn Gly His Asn Ile  
 35 40 45

Trp Val Ile Phe Val Val Thr Leu Val Val Pro Leu Leu Xaa Val Ala  
 50 55 60

Val Leu Ile Val Trp Cys Cys Ile Gly Ser Xaa Cys  
 65 70 75

5944

&lt;210&gt; 6711

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6711

Phe Ile Pro Ile Leu Val Ser Asn Tyr Asn Pro Lys Glu Phe Glu Ser  
1 5 10 15

Cys Ile Gln Tyr Tyr Leu Glu Asn Asn Trp Leu Gln His Glu Lys Ala  
20 25 30

Pro Thr Glu Glu Gly Lys Lys Glu Leu Leu Phe Leu Ser Asn Ala Asn  
35 40 45

Pro Ser Leu Leu Glu Arg His Cys Ala Tyr Leu  
50 55

&lt;210&gt; 6712

&lt;211&gt; 104

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

## 5945

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6712

Xaa	Arg	Pro	Arg	Ser	Gly	Xaa	Pro	Gly	Ser	Thr	His	Ala	Ser	Asp	Pro
1				5				10					15		

Pro	Xaa	Ile	Phe	Xaa	Lys	Pro	Ala	Lys	Thr	Ser	Lys	Xaa	Pro	Gly	Ser
			20					25				30			

Phe	Xaa	Glu	Glu	Leu	Leu	Xaa	Xaa	Thr	Glu	Thr	Val	Val	Thr	Glu	Tyr
			35				40					45			

## 5946

Leu Asn Ser Gly Asn Ala Asn Glu Ala Val Asn Gly Val Arg Glu Met  
 50 55 60  
 Arg Ala Pro Lys His Phe Leu Pro Glu Met Leu Ser Lys Val Ile Ile  
 65 70 75 80  
 Leu Ser Leu Asp Xaa Xaa Xaa Glu Asp Lys Xaa Lys Ala Ser Ser Leu  
 85 90 95  
 Ile Xaa Leu Leu Lys Gln Glu Gly  
 100

<210> 6713

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6713

Ala Leu Phe Asn Xaa Gly Ser Pro Xaa Leu His Glu Phe Arg Ser Xaa  
 1 5 10 15

Xaa Thr Leu Phe Ile Val Leu Val Asn Asn Asp Glu Gly Glu Trp Asn  
 20 25 30

5947

Gly Pro Pro Pro Xaa Cys Lys Arg Lys Asn Leu  
                   35                  40

&lt;210&gt; 6714

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6714

Met Cys Ser Leu Pro Phe Gln Ile Lys Ile Thr His Lys Asn Gln Met  
   1                  5                  10                  15

Pro Met Leu Met Gly Pro Pro Pro Arg Ser Thr Asn Phe Phe Gly Phe  
                   20                  25                  30

Leu Ser

&lt;210&gt; 6715

&lt;211&gt; 122

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (89)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (107)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (111)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (119)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6715

Gly Gly Asp Gly Thr Val Gly Trp Val Leu Gly Ala Leu Glu Glu Thr  
   1                  5                  10                  15

## 5948

Arg Tyr Arg Leu Ala Cys Pro Glu Pro Ser Val Ala Ile Leu Pro Leu  
20 25 30

Gly Thr Gly Asn Asp Leu Gly Arg Val Leu Arg Trp Gly Ala Gly Tyr  
35 40 45

Ser Gly Glu Asp Pro Phe Ser Val Leu Leu Ser Val Asp Glu Ala Asp  
50 55 60

Ala Val Leu Met Asp Arg Trp Thr Ile Leu Leu Asp Ala His Glu Ala  
65 70 75 80

Gly Ser Ala Glu Asn Asp Thr Ala Xaa Ala Glu Pro Pro Lys Ile Val  
85 90 95

Gln Met Ser Asn Tyr Leu Trp His Trp His Xaa Pro Gly Leu Xaa Leu  
100 105 110

Asp Phe Thr Lys His Arg Xaa Glu Glu Pro  
115 120

<210> 6716

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE



## 5949

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (54)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (80)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6716

Xaa	Met	Ala	Glu	Glu	Gly	Xaa	Pro	Ala	Pro	Leu	Pro	Pro	Glu	Asp	Ala
1				5					10					15	

Pro	Asn	Ala	Ala	Ser	Leu	Ala	Pro	Thr	Pro	Xaa	Ser	Pro	Xaa	Leu	Glu
		20						25					30		

Pro	Phe	Asn	Leu	Thr	Ser	Glu	Pro	Ser	Asp	Xaa	Ala	Leu	Asp	Leu	Ser
		35						40					45		

Thr	Phe	Leu	Gln	Gln	Xaa	Pro	Asp	Ala	Phe	Xaa	Xaa	Gly	Xaa	Pro	Glu
		50				55					60				

Leu	Pro	Lys	Lys	Lys	Pro	Lys	Asn	Pro	Gln	Arg	Lys	His	Gln	Gly	Xaa
65						70				75					80

Thr Arg Gly

&lt;210&gt; 6717

&lt;211&gt; 69

## 5950

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6717

Gly Cys Thr Pro Leu Phe Ile Pro Lys Leu Ala Gly Ser His Cys Ser  
1 5 10 15

Gly Ala Lys Gly Gly Lys Lys Ser Asp Gln Ser Asn Cys Ser Leu Glu  
20 25 30

Pro Leu Leu Gln Gln Leu Ser Thr Ser Tyr Lys Thr Met Pro Asp Val  
35 40 45

Cys Gln Ala Ser Asn Leu Leu Pro Ala Leu Arg Ser Leu Asn Cys Cys  
50 55 60

Leu Pro Ser Ser Leu  
65

&lt;210&gt; 6718

&lt;211&gt; 106

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (58)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5951

<220>  
 <221> SITE  
 <222> (66)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (73)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (76)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (91)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (96)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (106)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6718  
 Gln Xaa Lys Asp Gly Asp Glu Phe Asn Asn Ser Ile Xaa Gln Leu Phe  
     1                    5                    10                    15  
 Leu Ala Phe Asn Met Leu Met Asp Arg Pro Leu Glu Glu Ala Val Lys  
                     20                    25                    30  
 Ile Xaa Gly Ala Xaa Leu Lys Tyr Leu Pro Ser Ile Ile Asn Asp Val  
                     35                    40                    45  
 Lys Leu Val Phe Asp Pro Val Glu Leu Xaa Val Leu Phe Cys Lys Phe  
                     50                    55                    60  
 Ile Xaa Ser Ile Pro Asp Asn Gln Xaa Val Xaa Xaa Lys Leu Asn Cys  
                     65                    70                    75                    80

**5952**

Met Thr Lys Ile Val Glu Ser Thr Leu Phe Xaa Gln Ser Glu Cys Xaa  
                     85                    90                    95

Glu Val Leu Leu Pro Leu Leu Thr Asp Xaa  
                     100                    105

<210> 6719

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6719

Val Ala Val Lys Met Ala Leu Val Ala Ser Val Arg Val Pro Ala Arg  
   1                    5                    10                    15

Val Leu Leu Arg Ala Gly Ala Arg Leu Pro Gly Ala Ala Leu Gly Arg  
                     20                    25                    30

Thr Glu Arg Ala Ala Gly Gly Gly Asp Gly Ala Arg Arg Phe Gly Ser  
                     35                    40                    45

Gln Arg Val Leu Val Glu Pro Asp Ala Gly Ala Gly Val Ala Val Met  
                     50                    55                    60

Lys Phe Lys Asn Pro Pro Val Asn Ser Leu Ser Leu Glu Phe Leu Thr  
   65                    70                    75                    80

Glu Leu Val Ile Ser Leu Arg Ser Trp Arg Met Thr Arg Ala Ser Ala  
                     85                    90                    95

Val Xaa Phe

<210> 6720

<211> 134

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5953

&lt;400&gt; 6720

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Thr Pro Gln Gln Lys Tyr Gln Arg Leu Leu His Glu Val Gln Glu Leu
 1              5              10              15

Thr Thr Glu Val Glu Lys Ile Lys Thr Thr Val Lys Glu Ser Ala Thr
      20              25              30

Glu Glu Lys Leu Thr Pro Val Leu Leu Ala Lys Gln Leu Ala Ala Leu
      35              40              45

Lys Gln Gln Leu Val Ala Ser His Leu Glu Lys Leu Leu Gly Pro Asp
      50              55              60

Ala Ala Ile Asn Leu Thr Asp Pro Asp Gly Ala Leu Ala Lys Arg Leu
      65              70              75              80

Leu Leu Gln Leu Glu Ala Thr Lys Asn Ser Lys Gly Gly Ser Gly Gly
      85              90              95

Lys Thr Thr Gly Thr Pro Pro Asp Ser Ser Leu Val Thr Tyr Glu Leu
      100             105             110

His Ser Arg Pro Glu Gln Asp Lys Val Leu Ser Lys Leu Xaa Lys Val
      115             120             125

Gln Asn Leu Lys Ser Ala
      130

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&lt;210&gt; 6721

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5954

&lt;400&gt; 6721

Xaa Asn Lys Xaa Trp Cys Ser Thr Ala Val Ala Xaa Ala Leu Glu Leu  
1 5 10 15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Lys Thr Ser Leu  
20 25 30

Asn Leu Ser Leu Asn Leu Ile Phe Glu Leu Pro Ser Leu Phe Met Val  
35 40 45

Glu Gly Lys Gln Phe Arg Ser Leu Asp Tyr Glu Phe Cys Glu Thr His  
50 55 60

Asp Ser Thr Ile Thr  
65

&lt;210&gt; 6722

&lt;211&gt; 109

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (90)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (93)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (94)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (99)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (103)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6722

Leu Leu Pro Ser Glu Ser Pro Met Ala His Trp Trp Trp Trp Thr Ala  
1 5 10 15

## 5955

Cys Gln Ala Cys Asp Ser Ala Ala Ala Gly His Cys Arg Ala His Gln  
20 25 30  
Ala Cys Ala Asp Asp Glu Gln Asp Val Asn Val Ile Ile Ser Thr Tyr  
35 40 45  
Gly Glu Gly Glu Ser Gly Pro Met Gly Asn Ile Met Ile Asp Pro Val  
50 55 60  
Leu Gly Thr Val Gly Phe Gly Ser Gly Leu His Gly Trp Ala Phe Thr  
65 70 75 80  
Leu Lys Gln Phe Ala Glu Met Tyr Val Xaa Lys Phe Xaa Xaa Lys Gly  
85 90 95  
Glu Gly Xaa Leu Gly Pro Xaa Glu Arg Ala Lys Lys Val  
100 105

<210> 6723

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5956

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6723  
 Lys Cys Thr Ile Thr Gly Leu Thr Xaa Trp Asp Pro Xaa Cys Glu Ala  
           1                  5                  10                  15  
 Xaa Asp Arg Gly Asp Lys Phe Val Leu Arg Ser Xaa Tyr Ser Ser Cys  
                   20                  25                  30  
 Gly Met Xaa Val Ser Xaa Ser Met Ile Ser Asn Glu Xaa Xaa Val Asn  
           35                  40                  45  
 Ile Leu  
       50

<210> 6724  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6724  
 Ala Xaa Ala Trp Ala Pro Pro Pro Leu Ser Pro Trp Ser Ser Cys Lys  
           1                  5                  10                  15  
 Ser Ala Arg Met Ser Gln Ala Glu Phe Glu Lys Ala Ala Glu Glu Val  
                   20                  25                  30  
 Arg His Leu Lys Thr Lys Pro Ser Asp Glu Glu Met Leu Phe Ile Tyr  
           35                  40                  45  
 Gly His Tyr Lys Gln Ala Thr Val Gly Asp Ile Asn Thr Glu Arg Pro



## 5957

50		55		60
Gly Met Leu Asp Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu				
65		70		75
Leu Lys Gly Thr Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asn Lys				
	85		90	95
Val Glu Glu Leu Lys Lys Lys Tyr Gly Ile				
100		105		

&lt;210&gt; 6725

&lt;211&gt; 120

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (71)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (82)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (103)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (104)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (110)

## 5958

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6725

Ala	Trp	Cys	Arg	Trp	Leu	Val	Ser	Ala	Thr	Cys	Val	Gly	Thr	Ala	Asp
1				5					10					15	

Arg	Lys	Met	Ser	Ser	Gly	Asn	Ala	Lys	Ile	Gly	His	Pro	Ala	Pro	Asn
		20						25					30		

Phe	Lys	Ala	Thr	Ala	Val	Met	Pro	Asp	Gly	Gln	Phe	Lys	Asp	Ile	Ser
		35					40					45			

Leu	Ser	Asp	Tyr	Lys	Gly	Lys	Tyr	Val	Val	Phe	Phe	Phe	Tyr	Pro	Xaa
	50					55					60				

Xaa	Phe	Thr	Phe	Val	Cys	Xaa	Thr	Glu	Ile	Ile	Ala	Phe	Ser	Asp	Arg
65					70					75					80

Ala	Xaa	Glu	Phe	Lys	Lys	Leu	Asn	Cys	Gln	Val	Ile	Gly	Ala	Ser	Val
				85					90					95	

Asp	Ser	His	Phe	Cys	His	Xaa	Xaa	Trp	Val	Asn	Thr	Pro	Xaa	Lys	Gln
		100						105					110		

Xaa	Xaa	Leu	Gly	Pro	Met	Asn	Ile
	115					120	

<210> 6726

<211> 193

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

## 5959

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (189)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6726

Xaa	Ser	Xaa	Ala	Pro	Ala	Val	Pro	Val	Arg	Asn	Ser	Arg	Val	Asp	Pro
1				5					10					15	

Arg	Val	Arg	Thr	Xaa	Xaa	Val	Val	Asn	Cys	Phe	Val	Asn	Asn	Asn	Arg
			20					25					30		

Gln	Cys	Gln	Cys	Thr	Ser	Val	Gly	Ala	Gln	Asn	Thr	Val	Ile	Cys	Ser
		35					40					45			

Lys	Leu	Ala	Ala	Lys	Cys	Leu	Val	Met	Lys	Ala	Glu	Met	Asn	Gly	Ser
	50					55					60				

Lys	Leu	Gly	Arg	Arg	Ala	Lys	Pro	Glu	Gly	Ala	Leu	Gln	Asn	Asn	Asp
65					70					75					80

Gly	Leu	Tyr	Asp	Pro	Asp	Cys	Asp	Glu	Ser	Gly	Leu	Phe	Lys	Ala	Lys
				85					90					95	

Gln	Cys	Asn	Gly	Thr	Ser	Met	Cys	Trp	Cys	Val	Asn	Thr	Ala	Gly	Val
			100					105					110		

Arg	Arg	Thr	Asp	Lys	Asp	Thr	Glu	Ile	Thr	Cys	Ser	Glu	Arg	Val	Arg
		115					120					125			

Thr	Tyr	Trp	Ile	Ile	Ile	Glu	Leu	Lys	His	Lys	Ala	Arg	Glu	Lys	Pro
		130				135					140				

Tyr	Asp	Ser	Lys	Ser	Leu	Arg	Thr	Ala	Leu	Gln	Lys	Glu	Ile	Thr	Thr
145					150					155					160

Arg	Tyr	Gln	Leu	Asp	Pro	Lys	Phe	Ile	Thr	Ser	Ile	Leu	Tyr	Glu	Asn
				165					170					175	

## 5960

Asn Val Ile Thr Ile Asp Leu Val Gln Asn Ser Ser Xaa Lys Asn Ser  
 180 185 190

Glu

<210> 6727

<211> 153

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6727

His Val Val Glu Gly Thr Pro Ala Gly Thr Gly Ser Gly Ile Pro Gly  
 1 5 10 15

Tyr Leu Ile Tyr Leu Lys Phe Lys Ala Thr Tyr Asp Gly Asn His Asp  
 20 25 30

Thr Phe Arg Val Glu Phe Leu Val Val Pro Val Gly Gly Leu Ser Phe  
 35 40 45

Leu Val Asn His Asp Phe Ser Pro Leu Glu Ile Leu Trp Thr Phe Ser  
 50 55 60

Ile Tyr Leu Glu Ser Val Ala Ile Leu Pro Gln Leu Phe Met Ile Ser  
 65 70 75 80

Lys Thr Gly Glu Ala Glu Thr Ile Thr Thr His Tyr Leu Phe Phe Leu  
 85 90 95

Gly Leu Tyr Arg Ala Leu Tyr Leu Val Asn Trp Xaa Trp Arg Phe Tyr  
 100 105 110

Phe Glu Gly Phe Phe Asp Leu Ile Ala Val Val Ala Gly Val Val Gln  
 115 120 125

Thr Ile Leu Tyr Cys Asp Phe Phe Tyr Leu Tyr Ile Gln Lys Tyr Ser  
 130 135 140

## 5961

Arg Glu Arg Ser Ser Val Xaa Gln His  
145 150

<210> 6728  
<211> 135  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (18)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (55)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (71)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 5962

<220>  
 <221> SITE  
 <222> (72)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (74)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (83)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (96)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (99)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (116)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (120)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (122)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6728  
 Pro Ser Cys Gly Ala Gly His Thr Ala Gly Gly Gly Arg Gly Arg Xaa  
           1                  5                  10                  15

Pro Xaa Ser Trp Pro Pro Pro Val Glu Xaa Val Thr Leu Xaa Asp Leu  
                   20                  25                  30

## 5963

Ser Gln Leu Ile Ile Arg Asn Cys Xaa Ser Phe Asp Ile His Xaa Ile  
35 40 45

His Val Cys Leu His Leu Xaa Val Leu Leu Gly Phe Pro Ser Asp Gly  
50 55 60

Pro Leu Val Cys Ala Leu Xaa Xaa Glu Xaa Xaa Leu Arg Leu Pro Pro  
65 70 75 80

Lys Ala Xaa Ser Pro Phe Ala Thr Pro Ser Pro Lys Ser Asn Gly Xaa  
85 90 95

Arg Thr Xaa Ser Pro Arg Asp Gly Ala Pro Trp Pro Ile Thr Gly Pro  
100 105 110

Gly Pro Val Xaa Gly Thr Pro Xaa Phe Xaa Glu Asn Pro Cys Pro Leu  
115 120 125

Pro Gly Trp Phe Gln Glu Thr  
130 135

<210> 6729

<211> 157

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (149)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (150)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

## 5964

&lt;222&gt; (151)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6729

Thr	Gln	Pro	Thr	Val	Cys	Thr	Asp	Ala	Pro	Ser	Leu	Leu	Pro	Leu	Ser
1				5					10					15	

Arg	Leu	His	Leu	Arg	Gly	Ser	Trp	Asp	Arg	Arg	Ser	Val	Ala	Asn	Met
			20					25					30		

Gln	Leu	Phe	Val	Arg	Ala	Gln	Glu	Leu	His	Thr	Phe	Glu	Val	Thr	Gly
		35					40					45			

Gln	Glu	Thr	Val	Ala	Gln	Ile	Lys	Ala	His	Val	Ala	Ser	Leu	Glu	Gly
	50					55					60				

Ile	Ala	Pro	Glu	Asp	Gln	Val	Val	Leu	Leu	Ala	Gly	Ala	Pro	Leu	Glu
65					70					75					80

Asp	Glu	Ala	Thr	Leu	Gly	Gln	Cys	Gly	Val	Glu	Ala	Leu	Thr	Thr	Leu
				85					90					95	

Glu	Val	Ala	Gly	Arg	Met	Leu	Gly	Gly	Lys	Val	His	Gly	Ser	Leu	Ala
			100					105					110		

Arg	Ala	Gly	Lys	Val	Arg	Gly	Gln	Thr	Pro	Lys	Val	Ala	Lys	Gln	Glu
		115					120					125			

Lys	Lys	Lys	Lys	Lys	Thr	Gly	Arg	Ala	Lys	Arg	Arg	Met	Gln	Xaa	Asn
	130					135					140				

Arg	Xaa	Phe	Val	Xaa	Xaa	Xaa	Pro	Pro	Leu	Ala	Arg	Arg
145					150					155		

&lt;210&gt; 6730

&lt;211&gt; 164

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids



## 5965

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (71)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (73)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (97)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (128)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6730

Val	Xaa	Asp	Gln	Ile	Thr	Ala	Val	Arg	Lys	Phe	Ile	Xaa	Met	Gly	Phe
1				5				10					15		

Ile	Asp	Glu	Lys	Arg	Ile	Ala	Ile	Trp	Gly	Trp	Ser	Tyr	Gly	Gly	Tyr
		20					25					30			

Val	Ser	Ser	Leu	Ala	Leu	Ala	Ser	Gly	Thr	Gly	Leu	Phe	Lys	Cys	Gly
		35				40						45			

Ile	Ala	Val	Ala	Pro	Val	Ser	Ser	Trp	Glu	Tyr	Tyr	Ala	Ser	Val	Tyr
	50					55					60				

Thr	Glu	Arg	Phe	Met	Gly	Xaa	Pro	Xaa	Lys	Asp	Asp	Asn	Leu	Glu	His
65					70					75				80	

Tyr	Lys	Asn	Ser	Thr	Val	Met	Ala	Arg	Ala	Glu	Tyr	Phe	Arg	Asn	Val
				85				90						95	

Xaa	Tyr	Leu	Leu	Ile	His	Gly	Thr	Ala	Asp	Asp	Asn	Val	His	Phe	Gln
		100						105				110			

Asn	Ser	Ala	Gln	Ile	Ala	Lys	Ala	Leu	Val	Asn	Ala	Gln	Val	Asp	Xaa
		115				120						125			

Gln	Ala	Met	Trp	Tyr	Ser	Asp	Gln	Asn	His	Gly	Leu	Ser	Gly	Leu	Ser
	130					135					140				

Thr	Asn	His	Leu	Tyr	Thr	His	Met	Thr	His	Phe	Leu	Lys	Gln	Cys	Phe
145					150					155					160

5966

Ser Leu Ser Asp

&lt;210&gt; 6731

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6731

Gly Xaa Gly Arg Xaa Gln Cys Xaa Asn Thr Leu Gln Thr Asn Ala Gly

1

5

10

15

Tyr Leu Glu Gln Val Lys Arg Xaa Xaa Xaa

20

25

&lt;210&gt; 6732

&lt;211&gt; 61

## 5967

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6732

Ser	Ala	Ile	Ala	Ser	Xaa	Arg	Tyr	Lys	Arg	Phe	Xaa	Ile	Arg	Xaa	Arg
1				5					10					15	

Ile	Lys	Met	Gln	Xaa	Asp	Xaa	Val	Arg	Ser	Val	Ile	Gln	Asn	Leu	Thr
			20					25					30		

Glu	Glu	Gln	Ser	Met	Val	Leu	Cys	Ala	Ala	Xaa	Xaa	Lys	Ala	Gly	Ser
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 5968

35 40 45

Met Xaa Leu His Gln Asp Asn Ser His Thr Pro Val Ser  
50 55 60

<210> 6733  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 6733  
Ala Phe Ile Ala Lys Ser Phe Tyr Asp Leu Ser Ala Ile Ser Leu Asp  
1 5 10 15  
Gly Glu Lys Val Asp Phe Asn Thr Ser Arg Gly Arg Ala Val Leu Ile  
20 25 30  
Glu Asn Val Ala Ser Leu  
35

<210> 6734  
<211> 95  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (48)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 5969

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (82)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (88)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (92)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6734

Ala	Asp	Glu	Pro	Ile	Pro	Xaa	Lys	Glu	Leu	Glu	Arg	Gly	Val	Ala	Gly
1				5					10					15	

Ala	His	Gly	Leu	Leu	Cys	Leu	Leu	Ser	Asp	His	Val	Asp	Lys	Arg	Ile
			20					25					30		

Leu	Asp	Ala	Ala	Xaa	Ala	Asn	Leu	Lys	Val	Ile	Ser	Thr	Met	Xaa	Xaa
		35					40					45			

Gly	Xaa	Asp	His	Leu	Ala	Leu	Asp	Glu	Ile	Lys	Lys	Arg	Gly	Ile	Arg
	50					55					60				

Val	Gly	Tyr	Thr	Pro	Asp	Val	Leu	Thr	Asp	Thr	Thr	Val	Glu	Leu	Ala
65					70					75					80

Val	Xaa	Leu	Leu	Leu	Thr	Thr	Xaa	Arg	Arg	Leu	Xaa	Glu	Ala	Ile	
				85					90					95	

&lt;210&gt; 6735

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5970

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6735

Ala	Ala	Cys	Leu	Ala	Asp	Leu	Ala	Asp	Arg	Xaa	Tyr	Lys	Gln	Ala	Xaa
1				5					10					15	

Lys	Cys	Leu	Leu	Xaa	Xaa	Ser	Phe	Asp	His	Cys	Asp	Phe	Pro	Glu	Leu
			20					25					30		

&lt;210&gt; 6736

&lt;211&gt; 97

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 5971

<221> SITE  
<222> (61)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (67)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (69)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (76)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (84)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (88)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (90)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (93)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 5972

&lt;222&gt; (95)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6736

Cys	Pro	Trp	Pro	Leu	Lys	Leu	Arg	Cys	Gln	Cys	Leu	Gln	Thr	Leu	Gln
1				5					10					15	

Gly	Ile	His	Pro	Lys	Asn	Ile	Gln	Ser	Val	Asn	Xaa	Lys	Ser	Pro	Gly
			20					25					30		

Pro	His	Cys	Ala	Gln	Thr	Glu	Val	Ile	Ala	Thr	Leu	Lys	Asn	Gly	Arg
		35					40					45			

Lys	Xaa	Xaa	Leu	Gln	Ser	Cys	Met	Pro	His	Xaa	Leu	Xaa	Xaa	Leu	Ser
	50					55					60				

Xaa	Lys	Xaa	Val	Xaa	Gln	Trp	Gln	Ile	Gln	Leu	Xaa	Gln	Lys	Gly	Gly
65					70					75					80

Arg	Lys	Val	Xaa	Trp	Trp	Val	Xaa	Ala	Xaa	Arg	Glu	Xaa	Leu	Xaa	Leu
				85					90					95	

Phe

&lt;210&gt; 6737

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids



## 5973

&lt;400&gt; 6737

Ser Pro Gly Pro His Xaa Ala Gln Thr Gly Val Ile Ala Thr Leu Lys  
 1 5 10 15

Xaa Gly Arg Lys Ala Cys Leu Asn Pro Ala Xaa Pro Ile Val Met Lys  
 20 25 30

Xaa Ile

&lt;210&gt; 6738

&lt;211&gt; 18

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6738

Arg Xaa Val Ala Glu Asp Xaa His Leu Trp Asn Asp Ser Gln Pro Leu  
 1 5 10 15

Lys Leu

&lt;210&gt; 6739

&lt;211&gt; 66

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6739

Arg Gly Cys His Ser Asp Phe Leu Pro Glu Leu Leu Leu Ala Pro Ser  
 1 5 10 15

Ser Lys Lys Gly Lys Ala Arg Leu Ser Pro Arg Ser Val Gly Val Ile  
 20 25 30

Ser Pro Tyr Arg Lys Gln Val Glu Lys Ile Arg Tyr Cys Ile Thr Lys  
 35 40 45

## 5974

Leu Asp Arg Glu Leu Arg Gly Leu Asp Asp Ile Lys Asp Leu Lys Val  
 50 55 60

Val Gln  
 65

<210> 6740

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6740

Arg His Glu Glu Phe Ala Arg Tyr Thr Thr Pro Glu Asp Ala Thr Pro  
 1 5 10 15

Glu Pro Gly Glu Asp Pro Arg Val Thr Arg Ala Lys Tyr Phe Ile Arg  
 20 25 30

Asp Glu Phe Leu Arg Ile Ser Thr Ala Ser Gly Asp Gly Arg His Tyr  
 35 40 45

Cys Tyr Pro His Phe Thr Cys Ala Val Asp Thr Glu Asn Ile Arg Arg  
 50 55 60

Val Phe Asn Asp Cys Arg Asp Ile Ile Gln Arg Met His Leu Arg Gln  
 65 70 75 80

Tyr Glu Leu Leu Xaa Glu Gly Asn Pro Gln Ile  
 85 90

<210> 6741

<211> 23

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 5975

<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6741  
Asp Leu Tyr Lys Lys Xaa Gly Lys Leu Glu Phe Leu Gly Leu Asp Asn  
1 5 10 15

Ala Gly Gln Asn Xaa Xaa Xaa  
20

<210> 6742  
<211> 36  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)

## 5976

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6742

Ala	Gln	Gln	Gly	Ala	Pro	Cys	Pro	Ser	Arg	Cys	Gly	Glu	Xaa	Pro	Ala
1				5					10					15	
Cys	His	Trp	Leu	Pro	Pro	Asp	Leu	Thr	Glu	Pro	Pro	Xaa	Ala	Gln	Leu
			20					25						30	
Xaa	Xaa	Xaa	Phe												
			35												

<210> 6743

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6743

Thr	Arg	Pro	Asp	Lys	Xaa	Val	Lys	Asp	Leu	Val	Ile	Leu	Leu	Tyr	Glu
1				5					10					15	
Thr	Ala	Leu	Leu	Ser	Ser	Gly	Phe	Ser	Leu	Glu	Asp	Xaa	Gln	Thr	His
			20					25					30		
Ala	Asn	Arg	Ile	Tyr	Arg	Met	Ile	Lys	Leu	Gly	Leu	Gly	Ile	Asp	Glu
			35				40					45			
Asp	Asp	Pro	Thr	Ala	Asp	Asp	Thr	Ser	Ala	Ala	Val	Thr	Glu	Glu	Met
			50				55				60				

## 5977

Pro Pro Leu Glu Gly Asp Asp Xaa Thr Ser Arg Met Glu Xaa Val Asp  
 65 70 75 80

<210> 6744  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (67)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (72)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (82)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6744  
 Gly Xaa Ala Ser Pro Leu Gly Pro Ala Ala Leu Arg Asp Ser Glu Glu  
 1 5 10 15

Lys Leu Ala Pro Gly Gly Arg Gly Ser Val Asn Met Gly Lys Gly Asp  
 20 25 30

Pro Asn Lys Pro Arg Gly Lys Met Ser Ser Tyr Ala Phe Phe Val Gln  
 35 40 45

Thr Cys Arg Glu Arg Ala Gln Glu Arg Asn Thr Arg Thr Leu Pro Ser  
 50 55 60

## 5978

Ile Ser Xaa Glu Phe Ser Xaa Xaa Phe Phe Gly Lys Met Glu Lys Pro  
65 70 75 80

Phe Xaa Pro

<210> 6745

<211> 150

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

## 5979

&lt;222&gt; (145)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6745

Leu Val Ala Ala Leu Ala Pro Met Ser Leu Pro Asn Ser Ser Cys Leu  
 1 5 10 15

Leu Glu Asp Lys Met Cys Glu Gly Asn Lys Thr Thr Met Ala Ser Pro  
 20 25 30

Gln Leu Met Pro Leu Val Val Val Leu Ser Thr Ile Cys Leu Val Thr  
 35 40 45

Val Gly Leu Asn Leu Leu Val Leu Tyr Ala Val Arg Ser Glu Arg Lys  
 50 55 60

Leu His Thr Val Gly Asn Leu Tyr Ile Val Ser Xaa Ser Val Ala Asp  
 65 70 75 80

Leu Ile Val Gly Ala Val Val Met Pro Met Asn Ile Leu Tyr Leu Leu  
 85 90 95

Met Ser Lys Trp Xaa Xaa Gly Arg Pro Xaa Cys Leu Phe Trp Xaa Ser  
 100 105 110

Met Asp Tyr Val Ala Ser Thr Ala Ser Ile Phe Xaa Val Phe Ile Leu  
 115 120 125

Cys Ile Asp Arg Tyr Arg Ser Val His Asn Pro Ser Gly Thr Leu Xaa  
 130 135 140

Xaa Val Pro Lys Pro Glu  
 145 150

&lt;210&gt; 6746

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6746

Val Leu Glu Leu Ala Gly Asn Ala Ser Lys Asp Leu Lys Val Lys Arg  
 1 5 10 15

Ile Thr Pro Arg His Leu Gln Leu Ala Ile Arg Gly Asp Glu  
 20 25 30

&lt;210&gt; 6747

## 5980

&lt;211&gt; 128

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (118)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (121)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (123)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (126)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6747

Ala	Cys	Arg	Glu	Glu	His	Lys	Lys	Lys	His	Pro	Asp	Ala	Ser	Val	Asn
1				5					10					15	

Phe	Ser	Glu	Phe	Ser	Lys	Lys	Cys	Ser	Glu	Arg	Trp	Lys	Thr	Met	Ser
			20					25					30		

Ala	Lys	Glu	Lys	Gly	Lys	Phe	Glu	Asp	Met	Ala	Lys	Ala	Asp	Lys	Ala
		35					40					45			

Arg	Tyr	Glu	Arg	Glu	Met	Lys	Thr	Tyr	Ile	Pro	Pro	Lys	Gly	Glu	Thr
	50					55					60				

Lys	Lys	Lys	Phe	Lys	Asp	Pro	Asn	Ala	Pro	Lys	Arg	Pro	Pro	Ser	Ala
65					70					75					80

Phe	Phe	Leu	Phe	Cys	Ser	Glu	Tyr	Arg	Pro	Lys	Ile	Lys	Gly	Glu	His
				85					90					95	

Pro	Gly	Leu	Ser	Ile	Gly	Asp	Val	Ala	Lys	Lys	Leu	Gly	Glu	Met	Trp
		100						105					110		

Asn	Asn	Thr	Ala	Ala	Xaa	Asp	Lys	Xaa	Leu	Xaa	Lys	Lys	Xaa	Ala	Ala
		115					120					125			



## 5981

&lt;210&gt; 6748

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6748

Gly Thr Arg Xaa Glu Leu Ile Arg Pro Glu Arg Asn Thr Leu Val Val  
1 5 10 15

Ser Phe Val Asp Leu Glu Gln Phe Asn Gln Gln Leu Ser Thr Thr Ile  
20 25 30

Gln Glu Glu Phe Tyr Arg Val Tyr Pro Tyr Leu Cys Arg Ala Leu Lys  
35 40 45

Thr Phe Val Lys Asp Ser Gly Arg Arg Thr Tyr Lys  
50 55 60

&lt;210&gt; 6749

&lt;211&gt; 105

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

## 5982

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6749

Xaa	Leu	Asn	Arg	Xaa	Ser	Ser	Cys	Ser	Ser	Cys	Xaa	Met	Pro	Cys	Ser
1				5				10					15		

Ile	Xaa	Glu	Arg	Gln	Xaa	Ser	Ser	Gln	Pro	Ala	Leu	Ser	Leu	Ala	Leu
		20						25					30		

Ser	Xaa	Xaa	Xaa	Arg	Gly	Trp	Tyr	Ile	Ser	Ala	Ser	Ala	Xaa	Gly	Asp
		35					40					45			

Trp	Gly	Gly	Trp	Leu	Asn	Ala	Arg	Met	Leu	Gln	Xaa	Cys	Ser	Val	Lys
	50					55					60				

Gly	Leu	Ser	Leu	Asn	Gln	Val	Met	Val	Asp	Asp	Ala	Gly	Val	Pro	Leu
65					70					75					80

Met	Gly	Ser	Tyr	Ile	Gly	Val	Met	Val	Leu	Leu	Tyr	Lys	Pro	Gly	Leu
				85					90					95	

## 5983

Thr Asp Glu Pro Glu Ala Val Gly Glu  
                   100                  105

<210> 6750

<211> 121

<212> PRT

<213> Homo sapiens

<400> 6750

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr  
   1                  5                  10                  15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Arg Tyr Asn Gln  
                   20                  25                  30

Glu Thr Pro Met Glu Ile Cys Leu Asn Gly Thr Pro Ala Leu Ala Tyr  
                   35                  40                  45

Leu Ala Ser Ala Pro Pro Pro Leu Cys Pro Ser Gly Arg Thr Pro Asp  
                   50                  55                  60

Leu Lys Ala Leu Leu Asn Val Val Asp Asn Ala Arg Ser Phe Ile Tyr  
   65                  70                  75                  80

Val Ala Val Met Asn Tyr Leu Pro Thr Leu Glu Phe Ser His Leu Arg  
                   85                  90                  95

Ala Trp Arg Gln Gly Ala Pro Ala His Gln Leu Leu Gly Thr Leu Gly  
                   100                  105                  110

Gly His Pro Cys Gly Pro Ser Cys Ser  
                   115                  120

<210> 6751

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5984

&lt;400&gt; 6751

Phe Ser Leu Phe Pro Leu Ala Lys Ser Phe Asp Asp Gly Asp Tyr Phe  
 1 5 10 15  
 Pro Val Trp Gly Thr Cys Leu Gly Phe Glu Glu Leu Leu Met Leu Xaa  
 20 25 30  
 Ser Gly Glu Cys Leu Leu Thr Ala Thr Gly Xaa Cys Leu Thr Trp Gln  
 35 40 45  
 Cys Arg  
 50

&lt;210&gt; 6752

&lt;211&gt; 165

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6752

Gly Ala Gly Gly Gly Phe Gly Ser Pro Met Asp Ile Phe Asp Met Phe  
 1 5 10 15  
 Phe Gly Gly Gly Gly Arg Met Gln Arg Glu Arg Arg Gly Lys Asn Val  
 20 25 30  
 Val His Gln Leu Ser Val Thr Leu Glu Asp Leu Tyr Asn Gly Ala Thr  
 35 40 45  
 Arg Lys Leu Ala Leu Gln Lys Asn Val Ile Cys Asp Lys Cys Glu Gly  
 50 55 60  
 Arg Gly Gly Lys Lys Gly Ala Val Glu Cys Cys Pro Asn Cys Arg Gly  
 65 70 75 80  
 Thr Gly Met Gln Ile Arg Ile His Gln Ile Gly Pro Gly Met Val Gln  
 85 90 95  
 Gln Ile Gln Ser Val Cys Met Glu Cys Gln Gly His Gly Glu Arg Ile  
 100 105 110  
 Ser Pro Lys Asp Arg Cys Lys Ser Cys Asn Gly Arg Lys Ile Val Arg  
 115 120 125  
 Glu Lys Lys Ile Leu Glu Val His Ile Asp Lys Gly Met Lys Asp Gly  
 130 135 140  
 Gln Lys Ile Thr Phe His Gly Glu Gly Asp Gln Glu Pro Gly Leu Glu  
 145 150 155 160

5985

Pro Gly Asp Ile Ile  
165

&lt;210&gt; 6753

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5986

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (57)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6753

Xaa Pro Thr Xaa Pro Leu Ser His Met Asn Ile Xaa Gln Xaa Phe Glu  
1 5 10 15

Phe His Arg Met Ile Trp Ala Asp Leu Ser Cys Leu Val Tyr Arg Ala  
20 25 30

Asp Thr Gln Xaa Tyr Gln Pro Leu Xaa Thr Lys Xaa Gly Xaa Lys Glu  
35 40 45

Lys Phe Tyr Val Leu Leu Arg Gly Xaa  
50 55

&lt;210&gt; 6754

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6754

Pro Cys Lys Gly Ser Ile Ile Thr Cys Ser Leu Ser Arg Asp Leu Tyr  
1 5 10 15

Glu Trp Leu His Glu Gly Ser Ala Val Ser Tyr Phe  
20 25

&lt;210&gt; 6755

&lt;211&gt; 127

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (125)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (126)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6755

Asn Ser Gly Arg Gly Asp Leu Leu Tyr Gly Cys Tyr Thr Arg Pro Gln

## 5987

1	5	10	15
Ile Asn Thr Glu Ile Val Gln Asn Val Thr Gly Pro Gly Gln Arg Thr	20	25	30
Asn Met Gly Ile Leu Phe Met Ser Lys Val Gly Leu Arg Gly Asp Arg	35	40	45
Arg Ser Glu Gly Asp Glu Val Leu Asp Pro Leu Arg Gln Ala Leu Asp	50	55	60
Ser Ser Met Gln Ser His Asn Leu Tyr Gln His Pro Gln Arg Leu Ala	65	70	75
Phe His Val Ser Ala Pro Val Ala Ser Thr Val Gln Gln Ala Ser Gly	85	90	95
Leu Leu Gly Pro Leu Pro His Leu Ser Ser Phe Ala Leu Gln Pro Ala	100	105	110
His Ser Leu Leu Pro Pro Leu Gly Ser His Gly Ala Xaa Xaa Ser	115	120	125

&lt;210&gt; 6756

&lt;211&gt; 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6756

Ser Phe Ala Ser Leu Gln Asn Val Gly Tyr Leu Ala Gly Asp Ala Lys	1	5	10	15
Ile Leu Asn Asn Ile Asn Phe Ser Leu Arg Ala Gly Glu Phe Lys Leu	20	25	30	
Ile Thr Gly Pro Ser Gly Cys Gly Lys Ser Thr Leu Leu Lys Ile Val	35	40	45	
Ala Ser Leu Ile Ser Pro Thr Ser Gly Thr Xaa Thr Val	50	55	60	

&lt;210&gt; 6757

## 5988

<211> 57  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (20)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (24)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (53)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6757  
Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg Ser Phe Ala Xaa Met  
1 5 10 15

Glu Val Leu Xaa Trp Thr His Xaa Lys Glu Gln Leu Glu Thr Leu Arg  
20 25 30



## 5989

Lys Leu Xaa Arg Arg Glu Val Ala Xaa Gln Trp Leu Arg Pro Ala Glu  
                   35                                  40                                  45

Xaa Asp His Leu Xaa Asp Ser Leu Xaa  
           50                                  55

<210> 6758

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6758

Xaa Cys Phe Thr Phe Xaa Gly Ile Phe Xaa Ala Ile Ile Leu Phe Pro  
       1                                  5                                  10                                  15

Phe Gly Phe Ile Cys Cys Phe Ala Leu Arg Lys Arg Arg Cys Pro Asn  
                   20                                  25                                  30

Cys Gly Xaa Thr Phe Ala  
           35

<210> 6759

<211> 43

<212> PRT

<213> Homo sapiens

<220>

## 5990

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6759

Thr	Ile	Phe	Xaa	Gly	His	Ser	Thr	Val	Xaa	Lys	Arg	Cys	Asp	Trp	His
1				5					10					15	

Leu	Leu	His	Asn	Ser	Leu	Tyr	Gly	Ser	Val	Ala	Asp	Asp	Gln	Asn	Leu
			20					25					30		

Xaa	Tyr	Gly	Thr	Gln	Xaa	Pro	Ile	Gln	Leu	Gln
		35					40			

&lt;210&gt; 6760

&lt;211&gt; 87

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6760

Gly	Arg	Phe	Ala	Gly	Thr	Gly	Pro	Glu	Phe	Pro	Gly	Arg	Pro	Thr	Arg
1				5					10					15	

Pro	Glu	Asp	Ala	Glu	Asp	Arg	Pro	Pro	Glu	Leu	Leu	Phe	Ile	His	Gly
			20					25					30		

Gly	His	Thr	Ala	Lys	Ile	Ser	Asp	Phe	Ser	Trp	Asn	Pro	Asn	Glu	Pro
			35				40					45			

Trp	Val	Ile	Cys	Ser	Val	Ser	Glu	Asp	Asn	Ile	Met	Gln	Ile	Trp	Gln
	50					55					60				

Met	Ala	Glu	Asn	Ile	Tyr	Asn	Asp	Glu	Glu	Ser	Asp	Val	Thr	Thr	Ser
65					70					75					80

## 5991

Glu Leu Glu Gly Gln Gly Ser  
85

<210> 6761

<211> 151

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5992

<220>  
 <221> SITE  
 <222> (107)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (124)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (128)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (146)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (149)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6761  
 Gly Asn Xaa Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg  
 1 5 10 15  
 Pro Thr Arg Pro Pro Ser Trp Asp Leu Arg Ala Ser Phe Ser Xaa Leu  
 20 25 30  
 Leu Gln Asp Gly Val Asn Arg His Pro Arg Pro Pro Gly Xaa Ser  
 35 40 45  
 Pro Arg Ser Leu Cys Arg Xaa Ala Xaa Gly Ala Val Arg Ser Arg Gly  
 50 55 60  
 Glu Lys Ala Arg Xaa Val Ser Glu Asp Leu Cys Lys Val Ser Gly Tyr  
 65 70 75 80  
 Ser Phe Thr Ser Tyr Trp Ile Lys Trp Val Arg Gln Met Pro Xaa Lys  
 85 90 95  
 Gly Leu Glu Xaa Met Ala Arg Ile Asp Pro Xaa Asp Ser Tyr Thr Asn  
 100 105 110  
 Tyr Ser Pro Ser Phe Gln Gly His Val Thr Ile Xaa Ala Asp Lys Xaa  
 115 120 125  
 Ile Ser Thr Ala Thr Cys Ser Gly Ala Ala Glu Gly Leu Gly His Arg

## 5993

130                                      135                                      140  
 His Xaa Leu Leu Xaa Gln Thr  
 145                                      150

<210> 6762  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (76)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (80)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6762  
 Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Xaa  
   1                                      5                                      10                                      15  
 Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn  
                                     20                                      25                                      30  
 Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser  
                                     35                                      40                                      45  
 Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys  
                                     50                                      55                                      60  
 Val Tyr Ala Cys Xaa Val Thr His Gln Gly Leu Xaa Ser Pro Val Xaa  
   65                                      70                                      75                                      80

## 5994

<210> 6763  
 <211> 131  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (107)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (109)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (121)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (126)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (127)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6763  
 Leu Leu Thr Met Arg Leu Pro Ala Gln Leu Leu Gly Leu Leu Met Leu  
     1                    5                    10                    15  
 Trp Val Ser Gly Ser Ser Gly Asn Ile Val Met Thr Gln Ser Pro Val  
                     20                    25                    30  
 Ser Leu Tyr Val Thr Pro Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser  
                     35                    40                    45  
 Ser Gln Thr Leu Leu His Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr  
                     50                    55                    60  
 Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser  
     65                    70                    75                    80  
 Asn Arg Ala Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly  
                     85                    90                    95

## 5995

Thr Asp Phe Thr Leu Lys Ile Thr Arg Val Xaa Ala Xaa Asp Val Gly  
                   100                  105                  110

Gly Tyr Tyr Tyr Trp Met Gln Ala Xaa Gln Ile His Ser Xaa Xaa Ala  
                   115                  120                  125

Leu Asp Gln  
           130

<210> 6764

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6764

Ser Thr Met Ala Trp Ala Pro Leu Leu Leu Thr Leu Leu Ala His Cys  
       1                  5                  10                  15

Thr Gly Ser Trp Ala Ile Phe Met Leu Thr Gln Pro His Ser Val Ser  
                   20                  25                  30

Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Thr Arg Ser Xaa Gly  
           35                  40                  45

Lys His Cys Gln Gln Leu Cys Ala Val Val Pro Ala Ala Pro Gly Xaa  
       50                  55                  60

Val Pro Pro Pro Leu  
       65

<210> 6765

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

## 5996

<222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (12)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (29)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (53)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (73)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 6765  
 Gly Xaa Ala Arg Gly Asn His Gly Asn Pro Ser Xaa Xaa Leu Phe Leu  
   1                  5                  10                  15  
  
 Leu Leu Leu Trp Leu Pro Asp Thr Thr Gly Glu Asn Xaa Leu Thr His  
           20                  25                  30  
  
 Phe Pro Gly Thr Leu Xaa Phe Phe Pro Gly Glu Xaa Ala Thr Leu Ser



## 5997

35                                      40                                      45  
 Cys Trp Ala Ser Xaa Ser Val Tyr Ser Ser Tyr Leu Ala Trp Tyr Gln  
     50                                      55                                      60  
 Gln Lys Pro Gly Gln Xaa Pro Arg Xaa Leu Ile Tyr Gly Ala Ser Ser  
     65                                      70                                      75                                      80  
 Arg

<210> 6766  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (28)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6766  
 Arg Xaa Asp Asp Pro Ser His Ser Ser Ala Ala Ser Val Gly Asp Arg  
     1                                      5                                      10                                      15

Val Thr Ile Thr Cys Pro Gly Xaa Ser Glu His Xaa Gln Arg Cys Lys  
                     20                                      25                                      30

Leu Asp Gln Gln Thr Ile Trp Lys Ala Leu Xaa Ser  
                     35                                      40

<210> 6767

## 5998

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6767

Gln	Ser	Ser	Thr	Leu	Gly	Asn	Val	Ser	Thr	Met	Ala	Trp	Ala	Leu	Leu
1				5					10					15	

Leu	Leu	Ser	Leu	Leu	Thr	Gln	Gly	Thr	Gly	Ser	Trp	Ala	Gln	Ser	Ala
			20					25					30		

Leu	Thr	Gln	Pro	Arg	Ser	Val	Ser	Gly	Ser	Pro	Gly	Gln	Xaa	Val	Thr
		35					40					45			

Ile	Ser	Cys	Thr	Gly	Asn	Gln	Gln
	50					55	

&lt;210&gt; 6768

&lt;211&gt; 74

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (40)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6768

Ile	Arg	Gln	Ser	Arg	Arg	Gln	Arg	Ser	Arg	Val	Val	Ser	Thr	Met	Ala
1				5					10					15	

Trp	Xaa	Leu	Leu	Phe	Leu	Thr	Leu	Leu	Thr	Gln	Gly	Thr	Gly	Ser	Trp
			20					25					30		

Ala	Gln	Ser	Ala	Leu	Thr	Gln	Xaa	Ala	Ser	Val	Ser	Gly	Ser	Pro	Gly
		35					40					45			

Thr	Val	Asp	His	His	Leu	Leu	His	Trp	Glu	Gln	Val	Val	Thr	Leu	Val
	50					55					60				

## 5999

Ala Ile Asn Tyr Val Phe Trp Tyr His Gln  
 65 70

<210> 6769

<211> 169

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (164)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6769

Lys Ala Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro  
 1 5 10 15

Thr Arg Pro Leu Phe Val Val Ala Ala Ala Thr Gly Val Leu Ser Xaa  
 20 25 30

Leu Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser Ser  
 35 40 45

Val Asn Ile Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Arg Tyr Ala  
 50 55 60

Val Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val Gly  
 65 70 75 80

## 6000

Gly Ile Thr Pro Val Tyr Gly Thr Thr His Tyr Ala Asp Asn Leu Arg  
                             85                            90                            95

Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Asn Ile Ala Tyr Met  
                             100                            105                            110

Glu Leu Lys Ser Leu Lys Phe Glu Asp Thr Ala Met Tyr Phe Cys Ala  
                             115                            120                            125

Arg Val His Asn Ser Tyr Asp Ser Ser Ala Leu Asn Trp Xaa Asp Pro  
                             130                            135                            140

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Xaa Xaa Thr Lys Gly  
                             145                            150                            155                            160

Pro Ser Val Xaa Pro Leu Ala Pro Phe  
                             165

<210> 6770

<211> 82

<212> PRT

<213> Homo sapiens

<400> 6770

Asp Ser Ser Thr Ser Tyr Ser Ala Ser Phe Arg Gly His Val Ile Ile  
                             1                            5                            10                            15

Ser Ala Asp Asn Ser Ile Ser Thr Ala Tyr Leu Gln Trp Ser Ser Leu  
                             20                            25                            30

Lys Ala Ser Asp Ser Ala Ile Tyr Phe Cys Ala Arg Pro Ile Ala Ser  
                             35                            40                            45

Val Lys Ala Arg Leu Val Ala Pro Ser Lys Asp Tyr Trp Gly Gln Gly  
                             50                            55                            60

Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe  
                             65                            70                            75                            80

Pro Leu

<210> 6771

<211> 141

<212> PRT

<213> Homo sapiens

## 6001

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (141)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6771

Gly	Ser	Pro	Ser	Xaa	Glu	Ile	Pro	Arg	Ser	Phe	His	Leu	Val	Ile	Ser
1				5					10					15	

Thr	Glu	His	Arg	Pro	Pro	Thr	Met	Glu	Phe	Gly	Leu	Ser	Trp	Val	Phe
			20					25					30		

Leu	Val	Ala	Ile	Leu	Lys	Gly	Val	Gln	Cys	Glu	Val	Arg	Leu	Val	Glu
		35				40						45			

Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Arg	Ser	Leu	Arg	Leu	Ser	Cys
	50					55					60				

Thr	Thr	Pro	Gly	Phe	Thr	Phe	Asp	Asp	Tyr	Ala	Met	Asn	Trp	Phe	Arg
65					70					75					80

Gln	Ala	Pro	Gly	Arg	Gly	Leu	Glu	Trp	Val	Gly	Phe	Ile	Arg	Ser	Lys
				85					90					95	

Thr	Tyr	Gly	Gly	Thr	Thr	Gln	Tyr	Ala	Ala	Ala	Val	Lys	Gly	Arg	Phe
			100					105						110	

Thr	Ile	Ser	Arg	Asp	Asp	Ser	Lys	Ser	Ile	Val	Tyr	Leu	Gln	Met	Asn
		115					120					125			

Ser	Leu	Lys	Thr	Glu	Asp	Thr	Ala	Arg	Val	Leu	Leu	Xaa
	130					135					140	

&lt;210&gt; 6772

&lt;211&gt; 118

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6002

<220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (54)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (93)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (111)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6772  
 Ile Arg Xaa Ser Ser Thr Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu  
           1                  5                  10                  15  
 Glu Ile Lys Gly Thr Leu Ala Ala Pro Ser Val Phe Ile Leu Pro Pro  
                   20                  25                  30  
 Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Xaa Val Cys Leu Leu  
           35                  40                  45  
 Asn Asn Phe Tyr Pro Xaa Glu Ala Lys Val Gln Trp Lys Val Asp Asn  
           50                  55                  60  
 Ala Leu Gln Ser Gly Asn Phe Gln Val Glu Cys His Arg Ala Gly Gln  
           65                  70                  75                  80  
 Gln Gly Gln His Leu Gln Pro Gln Gln His Pro Asp Xaa Glu Gln Ser  
                   85                  90                  95  
 Arg Leu Arg Gly Asn Thr Lys Phe Tyr Gly Cys Glu Phe Thr Xaa Gln  
           100                  105                  110  
 Gly Leu Arg Leu Ala Arg  
           115

<210> 6773  
 <211> 147  
 <212> PRT  
 <213> Homo sapiens

## 6003

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6773

Phe	Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Xaa	Glu	Leu	Leu
1				5					10					15	

Ile	Tyr	Ala	Ala	Ser	Ala	Leu	Arg	Gly	Gly	Val	Pro	Ser	Arg	Phe	Ser
			20					25					30		

Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln
		35					40					45			

Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Phe	Cys	Gln	Gln	Ser	Asp	Asp	Phe	Pro
	50					55					60				

Phe	Ser	Phe	Gly	Gln	Gly	Thr	Arg	Leu	Glu	Met	Lys	Arg	Thr	Val	Ala
65					70					75					80

Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu	Gln	Leu	Lys	Ser
				85					90					95	

Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe	Tyr	Pro	Arg	Glu
			100					105					110		

Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln	Ser	Gly	Thr	Pro
		115					120					125			

Arg	Arg	Val	Ser	Gln	Ser	Arg	Thr	Ala	Arg	Thr	Ala	Pro	Thr	Ala	Ser
	130					135						140			

Ala	Ala	Pro
145		

&lt;210&gt; 6774

&lt;211&gt; 159

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 6004

<222> (82)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (114)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (117)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (118)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (119)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (127)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (130)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (136)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (137)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (138)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (139)



## 6005

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (150)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6774

Asn	Ser	Ala	Glu	Xaa	Asn	Pro	Ser	Ala	Phe	Phe	Ser	Ser	Cys	Arg	Ala
1				5					10					15	

Ser	Gln	Ser	Val	Ser	Thr	Arg	Phe	Val	Ala	Trp	Tyr	Gln	Gln	Lys	Leu
			20					25					30		

Gly	Gln	Ala	Pro	Arg	Val	Leu	Ile	Tyr	Ser	Thr	Ser	Ser	Arg	Ala	Pro
		35					40					45			

Gly	Ile	Pro	Arg	Thr	Gly	Ser	Val	Ala	Val	Gly	Leu	Gly	Thr	Glu	Leu
	50					55					60				

Ser	Leu	Leu	Gln	His	Gln	Arg	Ala	Trp	Glu	Pro	Glu	Asp	Phe	Ala	Val
65					70				75						80

Leu	Xaa	Leu	Cys	Asn	Ser	Tyr	Arg	Arg	Ala	Leu	Gly	His	Phe	Ser	Gly
				85					90					95	

## 6006

Gly Gly Asp Pro Arg Trp Glu Ile Glu Thr Glu Leu Trp Ala Cys Asn  
                   100                  105                  110

His Xaa Val Phe Xaa Xaa Xaa Pro Ala Ile Leu Ile Gly Ala Xaa Trp  
                   115                  120                  125

Lys Xaa Leu Gly Leu Ala Leu Xaa Xaa Xaa Xaa Pro Xaa Gly Lys Asn  
                   130                  135                  140

Phe Phe Phe Pro Gly Xaa Gly Gln Xaa Xaa Lys Gly Arg Xaa Xaa  
                   145                  150                  155

<210> 6775

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (149)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6775

Ser Thr Met Ala Trp Ala Pro Leu Leu Leu Thr Leu Leu Ala His Cys  
                   1                  5                  10                  15

Thr Gly Ser Trp Ala Ile Phe Met Leu Thr Gln Pro His Ser Val Ser  
                   20                  25                  30

Glu Pro Pro Gly Lys Thr Val Thr Ile Ser Cys Thr Arg Ser Ser Gly  
                   35                  40                  45

Ser Ile Ala Ser Asn Tyr Val Gln Trp Phe Gln Gln Arg Pro Gly Ser  
                   50                  55                  60

Ser Pro Thr Thr Val Ile Tyr Glu Asp Asn Gln Arg Pro Ser Gly Val  
                   65                  70                  75                  80

Pro Asp Arg Phe Ser Gly Ser Ile Asp Ser Ser Ser Asn Ser Ala Ser  
                   85                  90                  95

Leu Thr Ile Ser Gly Leu Lys Thr Glu Asp Glu Ala Asp Tyr Tyr Cys  
                   100                  105                  110

Gln Ser Tyr Asp Ser Ser Asn Val Val Phe Gly Gly Gly Thr Lys Leu  
                   115                  120                  125

Thr Val Leu Gly Gln Ala Gln Gly Leu Pro Leu Gly His Ser Val Pro  
                   130                  135                  140

## 6007

Ala Leu Leu Leu Xaa Ser Phe Lys Pro Thr Arg Pro His Trp Cys Val  
145 150 155 160

Ser

<210> 6776

<211> 64

<212> PRT

<213> Homo sapiens

<400> 6776

Ala Pro Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser  
1 5 10 15

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser  
20 25 30

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn  
35 40 45

Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His  
50 55 60

<210> 6777

<211> 151

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6008

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (105)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (123)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (130)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (151)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6777

Glu	Ala	Ala	Leu	Val	Val	Pro	Gln	Pro	Trp	Pro	Gly	Pro	Phe	Ser	Ser
1				5					10					15	

Ser	Ala	Ser	Ser	Leu	Thr	Ala	Gln	Ala	Ser	Val	Thr	Ser	Tyr	Val	Leu
			20					25					30		

Thr	Gln	Pro	Pro	Ser	Val	Ser	Val	Ala	Pro	Gly	Gln	Thr	Ala	Arg	Ile
		35					40					45			

Thr	Cys	Gly	Ala	Asn	Asn	Ile	Gly	Ile	Lys	Asn	Val	His	Trp	Tyr	Gln
	50					55					60				

Gln	Lys	Pro	Gly	Gln	Ala	Pro	Val	Leu	Val	Val	Tyr	Asp	Asp	Lys	Arg
65					70					75				80	

Pro	Ala	Leu	Xaa	Asp	Pro	Xaa	Arg	Ile	Phe	Trp	Phe	Gln	Leu	Leu	Gly
				85					90					95	

Thr	Xaa	Ala	Thr	Leu	Thr	Ile	Asn	Xaa	Val	Glu	Pro	Gly	Met	Lys	Pro
			100					105					110		

Thr	Ile	Thr	Val	Arg	Cys	Gly	Ile	Leu	Val	Xaa	Pro	Arg	Ser	Val	Arg
		115					120					125			

Arg	Xaa	Asp	Gln	Thr	Tyr	Arg	Leu	Ile	Asn	Pro	Arg	Leu	Pro	Leu	Gly
	130						135				140				

His	Ser	Val	Pro	Pro	Phe	Xaa
145						150

## 6009

&lt;210&gt; 6778

&lt;211&gt; 134

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (114)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (122)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (127)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6778

Ala	Gly	Gly	Lys	Leu	Cys	Arg	Asn	Ile	Ser	Thr	Met	Ala	Trp	Ala	Leu
1				5					10					15	

Leu	Leu	Leu	Thr	Leu	Leu	Thr	Gln	Gly	Thr	Gly	Ser	Trp	Ala	Gln	Ser
			20					25					30		

Ala	Leu	Thr	Gln	Pro	Pro	Ser	Val	Ser	Gly	Ser	Pro	Gly	Gln	Ser	Val
		35					40					45			

Thr	Ile	Ser	Cys	Thr	Gly	Thr	Ser	Ser	Asp	Val	Gly	Gly	Tyr	Asn	Arg
	50					55					60				

Val	Ser	Trp	Tyr	Gln	Gln	Ser	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Met	Ile
65					70					75					80

Tyr	Glu	Val	Ser	Asn	Arg	Pro	Ser	Arg	Val	Pro	Asp	Arg	Phe	Ser	Gly
				85					90					95	

Ser	Lys	Ser	Gly	Asn	Thr	Gly	Phe	Leu	Asp	Ile	Phe	Trp	Ala	Pro	Ser
			100					105					110		

Leu	Xaa	Thr	Lys	Gly	Glu	Leu	Leu	Leu	Xaa	Ala	Arg	Ile	Lys	Xaa	Ser
			115				120					125			

Lys	Phe	Phe	Phe	Leu	Phe
					130

## 6010

&lt;210&gt; 6779

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6779

Gly	Thr	Xaa	Leu	Xaa	Trp	Phe	His	Gln	Arg	Pro	Gly	Gln	Xaa	Pro	Arg
1				5					10					15	

Arg	Leu	Leu	Tyr	Lys	Ile	Ser	Asn	Arg	Glu	Leu	Trp	Arg	Pro	Xaa	Gln
			20					25					30		

Ile	Xaa	Arg	Gln	Trp	Gly	Gln	Ala	Leu	Ile	Cys	Thr	Leu	Lys	Ile	Ser
		35					40					45			

Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Ile	Tyr
	50					55			

&lt;210&gt; 6780

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

## 6011

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6780  
His Lys Xaa Val Val Xaa Val Val Gln Tyr Ser Cys Ser Pro Gly Asp  
1 5 10 15

Pro Val Val Val Glu Arg Pro Pro Pro Arg Trp Ser Cys Gln Leu Phe  
20 25 30

Val Pro Xaa Lys  
35

<210> 6781  
<211> 46  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (28)

## 6012

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6781

Leu	Gly	Phe	Phe	Xaa	Phe	Phe	Phe	Xaa	Glu	Met	Glu	Xaa	Val	Pro	Asn
1				5					10					15	

Ser	Cys	Ser	Pro	Gly	Asp	Pro	Leu	Val	Leu	Glu	Xaa	Pro	Pro	Pro	Arg
			20				25						30		

Trp	Arg	Xaa	Ser	Phe	Gly	Ser	Leu	Leu	Glu	Arg	Xaa	Gln	Ser
		35					40					45	

<210> 6782

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6782

Xaa	Val	Pro	Asn	Ser	Cys	Ser	Pro	Gly	Asp	Pro	Leu	Val	Leu	Glu	Arg
1				5					10					15	

Pro	Pro	Xaa	Arg	Trp	Ser	Ser	Ser	Phe	Ile	Pro	Xaa	Glu	Gly	Val	Asn
			20					25					30		



## 6013

Ser Lys Lys  
35

<210> 6783

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6783

Xaa	Asp	Leu	Val	Pro	Asn	Ser	Cys	Ser	Pro	Gly	Asp	Pro	Leu	Val	Leu
1				5					10				15		

Glu	Arg	Pro	Pro	Pro	Arg	Trp	Xaa	Pro	Ala	Phe	Val	Leu	Leu	Glu	Arg
			20					25					30		

<210> 6784

<211> 37

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6014

&lt;400&gt; 6784

Gly His Gly Leu Xaa Leu Val Pro Asn Ser Cys Ser Pro Gly Asp Pro  
1 5 10 15

Leu Val Leu Glu Arg Pro Pro Pro Arg Trp Ser Ser Xaa Ala Leu Phe  
20 25 30

Pro Ile Ile Glu Xaa  
35

&lt;210&gt; 6785

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6785

His Gly Leu Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu  
1 5 10 15

Glu Arg Pro Pro Pro Arg Trp Ser Ser Xaa Xaa Cys Ser Gln Xaa Leu  
20 25 30

Arg Xaa Asn Trp  
35

&lt;210&gt; 6786

## 6015

<211> 36  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6786  
Val Val Ser Val Trp Gly Leu Val Pro Asn Ser Cys Ser Pro Gly Asp  
1 5 10 15  
Pro Leu Val Leu Glu Arg Pro Pro Pro Arg Trp Ser Xaa Ser Phe Val  
20 25 30  
Pro Leu Val Arg  
35

<210> 6787  
<211> 43  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6787  
Leu Pro Leu Gln Ala Thr Cys Lys Ile Leu Gly Ala Lys Asp Gly Leu  
1 5 10 15  
Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu Glu Arg Pro  
20 25 30  
Pro Pro Arg Trp Ser Thr Ser Phe Xaa Pro Leu  
35 40

<210> 6788  
<211> 49  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)

## 6016

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6788

Xaa	Leu	Phe	Phe	Phe	Phe	Phe	Phe	Leu	Xaa	Glu	Asn	Asp	Phe	Ile	Leu
1				5					10					15	

Ile	Asn	Leu	Val	Pro	Asn	Ser	Cys	Ser	Pro	Gly	Asp	Pro	Leu	Val	Leu
			20					25					30		

Glu	Arg	Ala	Ser	Pro	Arg	Trp	Gly	Pro	Xaa	Phe	Val	Ala	Xaa	Gly	Ala
		35					40					45			

Gly

<210> 6789

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6789

Thr	Arg	Pro	Glu	Phe	Leu	Gln	Pro	Gly	Gly	Ser	Thr	Ser	Phe	Arg	Ala
1				5					10					15	

Pro	Pro	Arg	Arg	Trp	Ser	Ser	Ser	Phe	Ile	Pro	Arg	Glu	Gly	Xaa
			20					25					30	

## 6017

&lt;210&gt; 6790

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6790

Xaa	Glu	Asp	Leu	Arg	Leu	Pro	Glu	Gly	Asp	Leu	Gly	Met	Glu	Ile	Glu
1				5					10					15	

Gln	Lys	Tyr	Asp	Cys	Gly	Glu	Glu	Ile	Leu	Ile	Thr	Val	Leu	Ser	Ala
			20					25					30		

Met	Thr	Glu	Glu	Ala	Ala	Val	Ala	Ile	Lys	Ala	Met	Ala	Lys
		35					40					45	

&lt;210&gt; 6791

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (76)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (82)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (102)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (105)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6791

Glu	Lys	Met	Val	Leu	Leu	Thr	Ala	Val	Leu	Leu	Leu	Ala	Ala	Tyr
1				5					10				15	

**6018**

Ala Gly Pro Ala Gln Ser Leu Gly Ser Phe Val His Cys Glu Pro Cys  
                   20                  25                  30  
 Asp Glu Lys Ala Leu Ser Met Cys Pro Pro Ser Pro Leu Gly Cys Glu  
           35                  40                  45  
 Leu Val Lys Glu Pro Gly Cys Gly Cys Cys Met Thr Cys Ala Leu Ala  
       50                  55                  60  
 Glu Gly Gln Ser Cys Gly Val Tyr Thr Glu Arg Xaa Ala Gln Gly Leu  
   65                  70                  75                  80  
 Arg Xaa Leu Pro Arg Gln Asp Glu Glu Lys Pro Leu His Ala Leu Leu  
                   85                  90                  95  
 His Gly Arg Gly Val Xaa Leu Asn Xaa Lys Ser Tyr  
           100                  105

<210> 6792  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 6792  
 Gln Arg Pro Cys Leu Trp Lys Val Leu Leu Gln Ala Lys Gly Ser His  
   1                  5                  10                  15  
 Pro Ser Arg Leu Gln Thr Thr Asp Asn Leu Leu Pro Met Ser Pro Glu  
           20                  25                  30  
 Glu Phe Asp Glu Val Ser Arg Ile Val Gly Ser Val Glu Phe Asp Ser  
       35                  40                  45  
 Met Met Asn Thr Val  
       50

<210> 6793  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (72)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 6019

&lt;221&gt; SITE

&lt;222&gt; (74)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (94)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (95)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (96)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6793

Ala	Leu	His	Ser	Leu	Cys	Gly	Ala	Arg	Pro	Pro	Val	Pro	Val	Met	Ala
1				5					10					15	

Met	Leu	Arg	Val	Gln	Pro	Glu	Ala	Gln	Ala	Lys	Val	Asp	Val	Phe	Arg
			20					25					30		

Glu	Asp	Leu	Cys	Thr	Lys	Thr	Glu	Asn	Leu	Leu	Gly	Ser	Tyr	Phe	Pro
		35					40					45			

Lys	Lys	Ile	Ser	Glu	Leu	Asp	Ala	Phe	Leu	Lys	Glu	Pro	Ala	Leu	Asn
	50					55					60				

Glu	Ala	Asn	Leu	Ser	Asn	Leu	Xaa	Ala	Xaa	Trp	Thr	Ser	Gln	Cys	Leu
65					70					75					80

Ile	Gln	Ser	Arg	Arg	Lys	Arg	Lys	Arg	Asn	Gly	Arg	Asn	Xaa	Xaa	Xaa
				85					90					95	

Lys Glu

&lt;210&gt; 6794

&lt;211&gt; 136

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (101)

## 6020

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6794

Tyr	Thr	Glu	Ser	Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro	Gly
1				5				10					15		

Ser	Thr	His	Ala	Ser	Ala	Ser	Gly	His	His	Ser	Gly	Pro	Ser	Leu	His
			20					25					30		

Ala	Glu	Asn	His	Thr	Ser	Gln	Thr	Phe	Thr	Gln	His	Phe	Leu	Pro	Gln
		35					40					45			

Ser	Gln	Lys	Met	His	Lys	Glu	Glu	His	Glu	Val	Ala	Val	Leu	Gly	Ala
	50					55					60				

Pro	Pro	Ser	Thr	Ile	Leu	Pro	Arg	Ser	Thr	Val	Ile	Asn	Ile	His	Ser
65					70					75					80

Glu	Thr	Ser	Val	Pro	Asp	His	Val	Val	Trp	Ser	Leu	Phe	Asn	Thr	Leu
				85					90					95	

Phe	Leu	Asn	Trp	Xaa	Cys	Leu	Gly	Phe	Ile	Ala	Phe	Ala	Tyr	Ser	Val
			100					105					110		

Lys	Ser	Arg	Asp	Arg	Lys	Met	Val	Gly	Xaa	Arg	Asp	Arg	Gly	Pro	Xaa
		115					120					125			

Leu	Cys	Leu	His	Arg	Ser	Xaa	Ala
	130					135	

<210> 6795

<211> 29

<212> PRT

<213> Homo sapiens



## 6021

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6795

Xaa	Met	Xaa	Ile	Ser	Lys	Pro	His	Phe	Glu	Lys	Leu	Phe	Pro	Ser	Gln
1				5					10					15	

Cys	Tyr	Leu	Cys	Leu	Leu	Leu	Asn	Asn	His	Phe	Leu	Thr
			20				25					

&lt;210&gt; 6796

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6796

Phe	His	Leu	Ile	Lys	Ser	Leu	Lys	Tyr	Gln	Thr	Met	Arg	Xaa	His	Glu
1				5					10					15	

Xaa	Thr	Trp	Ala	Xaa	Asn	Leu	Arg	Tyr	Xaa	Lys	Pro	Asp	Leu	Asp	Cys
				20				25					30		

6022

Met Ala Gly Leu Arg Arg Phe Thr Leu Glu Leu Gln His Thr Tyr Trp  
35 40 45

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<210> 6797
<211> 60
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 6797  
Ala Met Arg Cys Met Pro Val Trp Asn Gly Gln Thr Leu Thr Phe Val  
1 5 10 15

Gln Asp Arg Pro Ser Asp Lys Thr Trp Thr Tyr Asn Arg Xaa Asn Val  
20 25 30

Val	Met	Pro	Asp	Asp	Gly	Ala	Pro	Phe	Arg	Tyr	Ser	Phe	Ser	Ala	Leu
		35					40					45			

Lys Asp Arg His Asn Ala Leu Xaa Gly Glu Leu Asp  
50 55 60

```
<210> 6798
<211> 109
<212> PRT
<213> Homo sapiens
```

<400> 6798  
Leu Ser Arg Ala Leu Ala Val Glu Leu Leu Asp Lys Val Asn Asn Pro  
1 5 10 15

Asp Asn His Ala His Tyr Thr Glu Ala Asp Asp Asp Asp Phe Glu Pro  
20 25 30

**6023**

His Ala Ile Ile Arg His Thr Ile Arg Ser Thr Asn Arg Asn Ala Arg  
           35                          40                          45  
 Ala Glu Arg Thr Ala Ser Glu Ile Asn Phe Asp Lys Leu Gln Phe Glu  
           50                          55                          60  
 Pro Pro Leu Arg Lys Glu Thr Glu Ala Arg Asp Glu Met Gly Leu Ser  
           65                          70                          75                          80  
 Ser Arg Pro Lys Phe His Val Tyr Ser Gly Ile Leu Leu Leu Met Val  
                           85                          90                          95  
 Gln Ile Leu Ala Asn His Leu Lys Thr Leu Gln Tyr His  
                           100                          105

&lt;210&gt; 6799

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6799

Phe Asn Leu Ile Ser Pro Ser Ile Ser Arg Tyr Cys Lys Lys Pro Leu  
           1                          5                          10                          15  
 Thr Ser Asn Cys Thr Ile Gln Ile Ala Thr Pro Gly Lys Gly Lys Lys  
                           20                          25                          30  
 Ser Thr Pro Lys Pro Ile Pro Ile Leu Ala Ala Gly Phe Cys Ser Asp  
           35                          40                          45  
 Lys Met Ser Leu Leu Leu Val Tyr Gly Ser Trp Phe Gln Pro Thr Ile  
           50                          55                          60  
 Glu Arg Val Val Arg  
           65

&lt;210&gt; 6800

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 6024

<221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (17)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (54)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 6800  
 Ala Lys Gly Glu Leu Gln Leu Xaa Met Leu Glu Ile Val His Pro Xaa  
   1                  5                  10                  15  
  
 Xaa Val Glu Lys His Tyr Arg Glu Met Glu Glu Lys Leu Ala Leu Ile  
                   20                  25                  30  
  
 Ile Gln Lys His Trp Lys Gly Ser Gly Lys Gly Lys Ile Xaa Thr Asn  
           35                  40                  45  
  
 Xaa Ser Xaa Leu Leu Xaa  
   50  
  
  
 <210> 6801  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 6801  
 Lys Ile Leu Phe Val Cys Ser Val Lys Leu Ser Leu Tyr Val Cys Leu

## 6025

1                    5                    10                    15  
 Leu Gln Leu Ser Pro Phe Val Tyr Ser Glu Phe Ala Arg Glu Arg Asn  
                   20                    25                    30  
 Leu His Val Ser Leu Leu Asp Pro Thr Leu  
                   35                    40  
  
 <210> 6802  
 <211> 174  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (168)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (172)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 6802  
 Ser Asp Gln Asp Leu Asn Arg Met Arg Ser Glu Leu Leu Val Pro Gly  
   1                    5                    10                    15  
 Ser Gln Leu Ile Leu Gly Pro His Glu Ser Lys Ile Pro Ile Leu Leu  
                   20                    25                    30  
 Ile Gln Gln Pro Gly Lys Val Thr Gly Glu Asp Arg Leu Gly Trp Gly  
                   35                    40                    45  
 Ser Gly Trp Asp Val Leu Leu Pro Lys Gly Trp Gly Met Ala Phe Trp  
                   50                    55                    60  
 Ile Pro Phe Ile Tyr Arg Gly Val Arg Val Gly Gly Leu Lys Glu Ser  
   65                    70                    75                    80  
 Ala Val His Ser Gln Tyr Lys Arg Ser Pro Asn Val Pro Gly Asp Phe  
                   85                    90                    95  
 Pro Asp Cys Pro Ala Gly Met Leu Phe Ala Glu Glu Gln Ala Lys Asn  
                   100                    105                    110  
 Leu Leu Glu Lys Tyr Lys Arg Arg Pro Pro Ala Lys Arg Pro Asn Tyr  
                   115                    120                    125  
 Val Lys Leu Gly Thr Leu Ala Pro Phe Cys Cys Pro Trp Glu Gln Leu

## 6026

130 135 140  
 Thr Gln Asp Trp Glu Ser Arg Val Gln Ala Tyr Glu Glu Pro Ser Val  
 145 150 155 160

Ala Ser Ser Pro Asn Gly Lys Xaa Ser Asp Leu Xaa Lys Ile  
 165 170

<210> 6803

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6803

Arg Gln Val Leu Val Leu Phe Ile Asp Glu Ala Ser Gln Lys Met Ser  
 1 5 10 15

Lys Gln Gln Pro Thr Gln Phe Ile Asn Pro Glu Thr Pro Gly Tyr Val  
 20 25 30

Gly Phe Ala Asn Leu Pro Asn Gln Val His Arg Lys Ser Val Lys Lys  
 35 40 45

Gly Phe Glu Phe Thr Leu Met Val Val Gly Glu Ser Gly Leu Gly Lys  
 50 55 60

Ser Thr Leu Ile Asn Ser Leu Phe Leu Thr Asp Leu Tyr Pro Glu Arg  
 65 70 75 80

Val Ile Pro Gly Ala Ala Glu Lys Ile Glu Arg Thr Val Gln Ile Glu  
 85 90 95

Ala Ser Thr Val Glu Ile Glu Glu Xaa Gly Val Lys Leu Arg Leu Xaa  
 100 105 110

Ser Gly Arg Tyr Pro Trp Leu Trp Val Thr  
 115 120

## 6027

&lt;210&gt; 6804

&lt;211&gt; 115

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (100)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (103)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6804

Trp	Xaa	Pro	Arg	Ala	Ala	Gly	Ile	Arg	His	Glu	Gly	Arg	Ser	Gly	Ala
1				5				10						15	

Val	Asp	Lys	Arg	Ala	Arg	Glu	Ala	Gly	Asn	Ile	Asn	Gln	Ser	Leu	Leu
			20					25					30		

Thr	Leu	Gly	Arg	Val	Ile	Thr	Ala	Leu	Val	Glu	Arg	Thr	Pro	His	Val
		35					40					45			

Pro	Tyr	Arg	Glu	Ser	Lys	Leu	Thr	Arg	Ile	Leu	Gln	Asp	Ser	Xaa	Gly
	50					55					60				

Gly	Arg	Thr	Arg	Thr	Ser	Ile	Ile	Ala	Thr	Ile	Ser	Pro	Ala	Ser	Leu
65					70					75					80

Asn	Leu	Glu	Glu	Thr	Leu	Ser	Thr	Leu	Glu	Tyr	Ala	His	Arg	Ala	Lys
				85					90					95	

Asn	Ile	Leu	Xaa	Lys	Pro	Xaa	Val	Asn	Gln	Lys	Leu	Thr	Lys	Lys	Ala
		100						105					110		

Leu	Ile	Lys
		115

## 6028

<210> 6805  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (12)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6805  
 Val Trp Lys Arg His Ser Arg Met Ser Tyr Leu Xaa Val Pro Tyr Val  
           1                          5                          10                          15

Thr His Ser

<210> 6806  
 <211> 146  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (90)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (105)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (114)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (145)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6806  
 Arg Thr Thr Val Thr Glu Val Ser Arg Ala Phe Ser Leu Leu Cys Lys  
           1                          5                          10                          15

Met Ala Thr Leu Lys Glu Lys Leu Ile Ala Pro Val Ala Glu Glu Glu



## 6029

	20		25		30	
Ala Thr Val Pro Asn Asn Lys Ile Thr Val Val Gly Val Gly Gln Val						
	35		40		45	
Gly Met Ala Cys Ala Ile Ser Ile Leu Gly Lys Ser Leu Ala Asp Glu						
	50		55		60	
Leu Ala Leu Val Asp Val Leu Glu Asp Lys Leu Lys Gly Glu Met Met						
	65		70		75	80
Asp Leu His His Gly Ser Leu Phe Leu Xaa Thr Pro Lys Ile Val Ala						
		85		90		95
Asp Lys Asp Tyr Ser Val Thr Ala Xaa Ser Lys Ile Val Val Val Thr						
	100		105		110	
Ala Xaa Val Arg Gln Gln Glu Gly Glu Ser Arg Leu Asn Leu Val Gln						
	115		120		125	
Arg Asn Val Asn Val Phe Lys Phe Ile Ile Pro Gln Ile Val Lys Tyr						
	130		135		140	
Xaa Ser						
145						

&lt;210&gt; 6807

&lt;211&gt; 175

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

## 6030

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6031

<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (56)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (114)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (137)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (142)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (143)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (163)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (171)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 6032

&lt;400&gt; 6807

```

Leu Xaa Pro Ala Xaa Xaa Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg
 1             5             10             15

Pro Thr Ser Ser Ser Ser Arg Ala Ala Ala Leu Glu Asp Xaa Arg Leu
          20             25             30

Arg Thr Gln Pro Cys Gln Xaa Xaa Ala Xaa Xaa Xaa Gly Xaa Xaa Xaa
      35             40             45

Xaa Xaa Xaa Xaa Ala Ala Val Xaa Gln Arg Arg Asp Trp Glu Asn Pro
      50             55             60

Gly Val Thr Gln Leu Asn Arg Leu Ala Xaa His Pro Pro Phe Ala Ser
 65             70             75             80

Trp Arg Asn Ser Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln Gln Leu
          85             90             95

Arg Ser Leu Asn Gly Glu Trp Asp Ala Pro Cys Ser Gly Ala Leu Ser
          100             105             110

Ala Xaa Gly Val Val Val Thr Arg Ser Val Thr Ala Thr Leu Ala Ser
      115             120             125

Ala Leu Ala Pro Ala Pro Phe Ala Xaa Phe Pro Ser Phe Xaa Xaa Thr
      130             135             140

Phe Ala Gly Phe Pro Arg Gln Ala Leu Asn Arg Gly Leu Pro Leu Gly
 145             150             155             160

Phe Arg Xaa Ser Ala Leu Arg His Leu Asp Xaa Lys Lys Leu Asp
          165             170             175

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&lt;210&gt; 6808

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6033

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6808

Xaa	Xaa	Lys	Ser	Trp	Cys	Ser	Thr	Ala	Val	Ala	Xaa	Ala	Leu	Glu	Leu
1				5					10				15		

Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser	Ala	Arg	Glu	Cys	Gln	Val	Ile
			20					25					30		

Val	Ser	Gln	Pro	Ile	Ile	Phe	Lys	Thr	Glu	Thr	Pro	Ser	Asn
		35					40					45	

&lt;210&gt; 6809

&lt;211&gt; 91

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (72)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (85)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6809

Leu	Leu	Xaa	Met	Arg	Leu	Pro	Ala	Gln	Leu	Leu	Xaa	Leu	Leu	Met	Leu
1				5					10				15		

Trp	Val	Ser	Gly	Ser	Ser	Gly	Asn	Ile	Val	Met	Thr	Gln	Ser	Pro	Leu
			20					25					30		

Ser	Leu	Pro	Val	Thr	Pro	Gly	Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser
			35				40					45			

## 6034

Ser Gln Thr Leu Leu His Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr  
 50 55 60

Leu Gln Lys Pro Gly Gln Ser Xaa Gln Leu Leu Ile Tyr Leu Gly Ser  
 65 70 75 80

Asn Arg Ala Phe Xaa Gly Ser Leu Thr Gly Phe  
 85 90

&lt;210&gt; 6810

&lt;211&gt; 137

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6810

Xaa Xaa Ile Cys Glu Leu Pro Leu Lys Leu Val Arg Pro Ala Gly Thr  
 1 5 10 15

Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Xaa Leu Ser Tyr Asn  
 20 25 30

Lys Leu Lys Asn Ile Pro Thr Val Asn Glu Asn Leu Glu Asn Tyr Tyr  
 35 40 45

Leu Glu Val Asn Gln Leu Glu Lys Phe Asp Ile Lys Ser Phe Cys Lys  
 50 55 60

Ile Leu Gly Pro Leu Ser Tyr Ser Lys Ile Lys Gln Lys Leu Phe Met  
 65 70 75 80

Ser Ile Ala Ser Gln Lys Pro Val Phe His Arg Ile Cys Met Asn Val  
 85 90 95

## 6035

Tyr Val Leu Leu Thr Lys Ser Leu Leu Ile Asn Ile Cys Ile Leu Glu  
                   100                  105                  110

Gln Tyr Phe Met Val Met Phe Phe Cys Val Ser Val Phe Ile Val Ser  
           115                  120                  125

Ile Phe Tyr Tyr Cys Leu Leu Leu Pro  
      130                  135

<210> 6811

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6811

Pro Arg Val Arg Ala Val Met Ala Pro Arg Thr Leu Leu Leu Leu Leu  
      1                  5                  10                  15

Leu Gly Ala Leu Ala Leu Thr Gln Thr Trp Ala Gly Ser His Ser Met

## 6036

	20		25		30
Arg Tyr Phe Thr Thr Ser Val Ser Arg Pro Gly Arg Gly Glu Pro Arg					
35		40		45	
Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp					
50		55		60	
Ser Asp Ala Xaa Ser Gln Arg Met Glu Pro Arg Ala Pro Trp Ile Glu					
65		70		75	80
Gln Glu Arg Pro Glu Tyr Trp Asp Gln Glu Thr Arg Asn Val Lys Ala					
	85		90		95
His Ser Gln Ile Asp Arg Val Asp Leu Gly Thr Leu Arg Gly Tyr Tyr					
	100		105		110
Asn Gln Ser Glu Ala Gly Ser Xaa Thr Xaa Xaa Met Met Tyr Gly Cys					
	115		120		125
Xaa Val Gly Phe Gly Arg Ala Leu Pro Xaa Arg Val Pro Thr					
	130		135		140

&lt;210&gt; 6812

&lt;211&gt; 130

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (127)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6812

Glu Ala Cys Xaa Asp Leu Ala Lys Glu Gln Gly Pro Tyr Glu Thr Tyr
1 5 10 15

Glu Gly Ser Pro Val Ser Lys Gly Ile Leu Gln Tyr Asp Met Trp Asn
20 25 30

Val Thr Pro Thr Asp Leu Trp Asp Trp Lys Val Leu Lys Glu Lys Ile
35 40 45

Ala Lys Tyr Gly Ile Arg Asn Ser Leu Leu Ile Ala Pro Met Pro Thr
---



50			55			60											
Ala	Ser	Thr	Ala	Gln	Ile	Leu	Gly	Asn	Asn	Glu	Ser	Ile	Glu	Pro	Tyr		
65					70					75						80	
Thr	Ser	Asn	Ile	Tyr	Thr	Arg	Arg	Asp	Leu	Ser	Gly	Glu	Phe	Gln	Ile		
			85						90					95			
Val	Asn	Pro	His	Leu	Leu	Lys	Asp	Leu	Thr	Glu	Arg	Gly	Leu	Trp	His		
			100					105					110				
Glu	Glu	Met	Lys	Asn	Gln	Ile	Ile	Ala	Cys	Asn	Gly	Ser	Ile	Xaa	Ser		
		115					120					125					
Ile	Pro																
	130																

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;221&gt; SITE

## 6038

&lt;222&gt; (61)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6813

Thr	Met	Gln	Ala	Xaa	Asp	Asn	Ile	Thr	Xaa	Ala	Arg	Leu	Leu	Gln	Gln
1				5					10					15	

Glu	Val	Leu	Gln	Asn	Val	Ser	Asp	Ala	Glu	Ser	Cys	Tyr	Leu	Val	His
			20					25					30		

Thr	Leu	Leu	Glu	Phe	Tyr	Leu	Lys	Thr	Val	Phe	Lys	Asn	Tyr	His	Asn
			35				40					45			

Arg	Thr	Val	Glu	Val	Arg	Asp	Xaa	Xaa	Xaa	Ile	Leu	Xaa
	50					55					60	

&lt;210&gt; 6814

&lt;211&gt; 72

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6814

Lys	Thr	Gln	Glu	Thr	Thr	Ser	Ile	Ser	Val	Thr	His	Phe	Leu	Ser	Phe
1				5					10					15	

Leu	Thr	Gly	Phe	Trp	Lys	Leu	Ala	Ile	Cys	Met	Ala	Lys	Thr	Asp	Leu
			20					25					30		

Ser	Leu	Xaa	His	Gln	Pro	Asp	Lys	Lys	Gly	Val	Pro	Arg	Asp	Xaa	Ile
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

6039

35 40 45

Leu Pro Ile Ser Asp Val Arg Ala Ser Ile Xaa Ala Trp Gly Gln Leu

50 55 60

Pro Leu Val Gly Thr Xaa His His

65 70

<210> 6815

<211> 209

&lt;212&gt; PRT

<213> Homo sapiens

<220>

&lt;221&gt; SITE

 $\langle 222 \rangle$  (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

<222> (191)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

&lt;221&gt; SITE

<222> (193)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$ 

<221> SITE

$\langle 222 \rangle$  (201)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (206)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6815

Gly Asp Gln Pro Thr Ala Xaa Cys Xaa Cys Ile Gln Arg Gln Val Pro  
1 5 10 15

Pro Val Pro Ala Ala Arg Ala Pro Gln Ser Arg Thr Arg Ser Ala Gln  
20 25 30

## 6040

Ala Lys Leu Ala Leu Thr Met Pro Val Lys Gly Gly Thr Lys Cys Ile  
           35                          40                          45  
 Lys Tyr Leu Leu Phe Gly Phe Asn Phe Ile Phe Trp Leu Ala Gly Ile  
           50                          55                          60  
 Ala Val Leu Ala Ile Gly Leu Trp Leu Arg Phe Asp Ser Gln Thr Lys  
           65                          70                          75                          80  
 Ser Ile Phe Glu Gln Glu Thr Asn Asn Asn Asn Ser Ser Phe Tyr Thr  
                           85                          90                          95  
 Gly Val Tyr Ile Leu Ile Gly Ala Gly Ala Leu Met Met Leu Val Gly  
                           100                          105                          110  
 Phe Leu Gly Cys Cys Gly Ala Val Gln Glu Ser Gln Cys Met Leu Gly  
           115                          120                          125  
 Leu Phe Phe Gly Phe Leu Leu Val Ile Phe Ala Ile Glu Ile Ala Ala  
           130                          135                          140  
 Ala Ile Trp Gly Tyr Ser His Lys Asp Glu Val Ile Lys Glu Val Gln  
           145                          150                          155                          160  
 Glu Phe Tyr Lys Asp Thr Tyr Asn Lys Leu Lys Thr Lys Asp Glu Pro  
                           165                          170                          175  
 Gln Arg Glu Thr Leu Lys Ala Ile His Tyr Ala Leu Asn Cys Xaa Gly  
                           180                          185                          190  
 Xaa Gly Trp Gly Ala Trp Lys Gln Xaa Tyr Leu Lys Lys Xaa Trp Pro  
           195                          200                          205

Gln

&lt;210&gt; 6816

&lt;211&gt; 123

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 6041

<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (66)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (68)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (71)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (80)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (109)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (114)

## 6042

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6816

Val Glu Xaa Asn Ser Pro Xaa Xaa Arg Xaa Leu Leu Gln Ile Leu Leu  
1 5 10 15

Ser Phe Ala Ser Gly Gly Leu Leu Gly Asp Ala Phe Leu His Leu Ile  
20 25 30

Pro His Ala Leu Glu Pro His Ser His His Thr Leu Glu Gln Pro Gly  
35 40 45

His Gly His Ser His Ser Gly Gln Gly Pro Ile Leu Ser Val Gly Leu  
50 55 60

Xaa Xaa Leu Xaa Gly Ile Xaa Ala Phe Xaa Asp Val Glu Lys Phe Xaa  
65 70 75 80

Arg His Val Lys Gly Gly His Gly His Ser His Gly His Gly His Ala  
85 90 95

His Ser His Thr Arg Gly Ser His Gly His Gly Arg Xaa Glu Arg Ser  
100 105 110

Thr Xaa Glu Lys Xaa Ile Ser Glu Glu Glu Asp  
115 120

<210> 6817

<211> 137

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6817

Xaa Asp Ile Glu Phe Ile Tyr Thr Ala Pro Ser Ser Ala Val Cys Gly  
1 5 10 15

Val Ser Leu Asp Val Gly Gly Lys Lys Glu Tyr Leu Ile Ala Gly Lys  
20 25 30

## 6043

Ala Glu Gly Asp Gly Lys Met His Ile Thr Leu Cys Asp Phe Ile Val  
                   35                                  40                                  45

Pro Trp Asp Thr Leu Ser Thr Thr Gln Lys Lys Ser Leu Asn His Arg  
           50                                  55                                  60

Tyr Gln Met Gly Cys Glu Cys Lys Ile Thr Arg Cys Pro Met Ile Pro  
   65                                  70                                  75                                  80

Cys Tyr Ile Ser Ser Pro Asp Glu Cys Leu Trp Met Asp Trp Val Thr  
                                   85                                  90                                  95

Glu Lys Asn Ile Asn Gly His Gln Ala Lys Phe Phe Ala Cys Ile Lys  
                                   100                                  105                                  110

Arg Ser Asp Gly Ser Cys Ala Trp Tyr Arg Gly Ala Ala Pro Pro Lys  
           115                                  120                                  125

Gln Glu Phe Leu Asp Ile Glu Asp Pro  
   130                                  135

&lt;210&gt; 6818

&lt;211&gt; 158

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (124)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (135)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (147)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6818

Pro Arg Ala Arg Pro Ala Ala Pro Ala Ala Ala Pro Gly Pro Leu Ala  
   1                                  5                                  10                                  15

Ala Ala Thr Met Asp Ala Ile Lys Lys Lys Met Gln Met Leu Lys Leu  
                   20                                  25                                  30

Asp Lys Glu Asn Ala Leu Asp Arg Ala Glu Gln Ala Glu Ala Asp Lys

## 6044

35	40	45
Lys Ala Ala Glu Asp Arg Ser Lys Gln Leu Glu Asp Glu Leu Val Ser		
50	55	60
Leu Gln Lys Lys Leu Lys Gly Thr Glu Asp Glu Leu Asp Lys Tyr Ser		
65	70	75
Glu Ala Leu Lys Asp Ala Gln Glu Lys Leu Glu Leu Ala Glu Lys Lys		
85	90	95
Ala Thr Asp Ala Glu Ala Asp Val Ala Ser Leu Asn Arg Arg Ile Gln		
100	105	110
Leu Val Glu Glu Glu Val Trp Ile Val Pro Lys Xaa Arg Ser Gly Asn		
115	120	125
Ser Phe Ala Glu Thr Trp Xaa Lys Leu Glu Lys Ala Ala Asp Glu Ser		
130	135	140
Glu Arg Xaa Met Lys Val Ile Glu Lys Ser Ser Pro Lys Arg		
145	150	155

&lt;210&gt; 6819

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6819

Cys Lys Met Phe Ala Cys Ala Lys Leu Ala Cys Thr Pro Ser Leu Ile
1 5 10 15

Arg Ala Gly Ser Ile Val Ala Tyr Arg Pro Ile Ser Ala Ser Val Phe
20 25 30

Ile Ser Thr Arg Ser
35

&lt;210&gt; 6820

&lt;211&gt; 183

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (148)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids



## 6045

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (160)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (172)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (178)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (180)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6820

Glu	Asn	Val	Leu	Lys	Thr	Ser	Gly	Lys	Leu	Arg	Glu	Asn	Leu	Leu	His
1				5					10					15	

Gly	Ala	Leu	Glu	His	Tyr	Val	Asn	Cys	Leu	Asp	Leu	Val	Asn	Lys	Arg
			20					25					30		

Leu	Pro	Tyr	Gly	Leu	Ala	Gln	Ile	Gly	Val	Cys	Phe	His	Pro	Val	Phe
		35					40					45			

Asp	Thr	Lys	Gln	Ile	Arg	Asn	Gly	Val	Lys	Ser	Ile	Gly	Glu	Lys	Thr
	50					55					60				

Glu	Ala	Ser	Leu	Val	Trp	Phe	Thr	Pro	Pro	Arg	Thr	Ser	Asn	Gln	Trp
65					70					75					80

Leu	Asp	Phe	Trp	Leu	Arg	His	Arg	Leu	Gln	Trp	Trp	Arg	Lys	Phe	Ala
				85					90					95	

Met	Ser	Pro	Ser	Asn	Phe	Ser	Ser	Ser	Asp	Cys	Gln	Asp	Glu	Glu	Gly
			100					105					110		

Arg	Lys	Gly	Asn	Lys	Leu	Tyr	Tyr	Asn	Phe	Pro	Leu	Gly	Lys	Gly	Val
		115					120					125			

Asn	Arg	Asn	Pro	Val	Glu	Pro	Lys	Arg	Ser	Glu	Leu	Leu	His	Met	Tyr
	130					135					140				

Pro	Gly	Asn	Xaa	Ala	Lys	Leu	Pro	Trp	Pro	Lys	Trp	Thr	Lys	Lys	Xaa
145					150					155					160

## 6046

Gly Ser Leu Gly Ser Ser Leu Glu Met Gly Thr Xaa Thr Arg Gly Met  
165 170 175

Leu Xaa Asn Xaa Met Ile Leu  
180

<210> 6821  
<211> 109  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
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<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (18)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 6047

<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (58)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (61)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (69)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (76)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (87)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (97)

## 6048

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6821

Glu	Leu	Leu	Ser	Ser	Arg	Xaa	Leu	Xaa	Ala	Lys	Xaa	Xaa	Gly	Xaa	Ser
1				5					10					15	

Xaa	Xaa	Ser	His	Arg	Ala	Leu	Gln	Gly	Thr	Ile	Ala	Xaa	Asn	Xaa	Glu
			20					25					30		

Thr	Asp	Met	Gln	Val	Leu	Glu	Lys	Leu	Ser	Gly	Lys	Leu	Xaa	Glu	Arg
		35					40					45			

Xaa	Leu	Lys	Asp	Phe	Xaa	Met	Ile	Arg	Xaa	Met	Lys	Xaa	Lys	Leu	Asn
	50					55					60				

Pro	Gln	Asn	Ser	Xaa	Val	Met	Pro	Trp	Asp	Pro	Xaa	Tyr	Tyr	Ser	Gly
65					70					75					80

Val	Ile	Arg	Ala	Glu	Arg	Xaa	Asn	Ile	Glu	Pro	Ser	Leu	Tyr	Cys	Pro
				85					90					95	

Xaa	Phe	Xaa	Leu	Gly	Ala	Cys	Met	Glu	Ser	Leu	Asn	Ile
			100					105				

<210> 6822

<211> 144

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6049

<220>  
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 <222> (21)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (107)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (123)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (131)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (132)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (143)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6822  
 Arg Thr Xaa Ala Xaa Gly Glu Arg Ala Cys Arg Ser Thr Leu Val Asp  
 1 5 10 15  
 Pro Lys Xaa Val Xaa Thr Val Phe Ser Leu Gly Ala Cys Met Glu Gly  
 20 25 30  
 Leu Asn Ile Leu Leu Asn Arg Leu Leu Gly Ile Ser Leu Tyr Ala Glu  
 35 40 45  
 Gln Pro Ala Lys Gly Glu Val Trp Ser Glu Asp Val Arg Lys Leu Ala  
 50 55 60  
 Val Val His Glu Ser Glu Gly Leu Leu Gly Tyr Ile Tyr Cys Asp Phe  
 65 70 75 80  
 Phe Gln Arg Ala Asp Lys Pro His Gln Asp Cys His Phe Thr Ile Arg  
 85 90 95  
 Gly Gly Arg Leu Lys Gly Arg Trp Glu Thr Xaa Gln Leu Pro Val Val  
 100 105 110

## 6050

Ser Ser Tyr Ala Gly Ile Phe Pro Val Pro Xaa Arg Glu Phe Ser Asn  
 115 120 125

Phe Gly Xaa Xaa Leu Gly Met Met Gly Lys Pro Phe Pro Gly Xaa Gly  
 130 135 140

<210> 6823

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6823

Ala Xaa Ser Ser Leu Trp Glu Ser Lys Pro Arg Xaa Gly Thr Glu Ala  
 1 5 10 15

Ser Glu Leu Leu Pro Thr Leu Asp Thr Lys Ala Pro Thr Gly Arg Arg  
 20 25 30

Thr Lys Pro Trp Gly Arg Leu Lys Arg Arg Ala Arg Ser Pro Gln Gly  
 35 40 45

Gln Thr Ala Lys Pro Gln Ser Cys Cys Gly Ala Glu His Arg Gly Pro  
 50 55 60

Gln Ala Leu Arg Lys Gly Arg Gly Asp Pro Gly Ala Arg Glu Arg Ser  
 65 70 75 80

Pro Arg Ala Ile Ser Arg Ala Gly Arg Arg Glu Pro Arg Ala Val His  
 85 90 95

Ser Cys Gly Leu  
 100

## 6051

<210> 6824  
 <211> 109  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (92)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (95)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (98)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (107)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6824  
 Phe Lys Arg Glu Thr Gly Val Asp Leu Thr Lys Asp Asn Met Ala Leu  
     1                    5                    10                    15  
 Gln Arg Val Arg Glu Ala Ala Glu Lys Ala Lys Cys Glu Leu Ser Ser  
                     20                    25                    30  
 Ser Val Gln Thr Asp Ile Asn Leu Pro Tyr Leu Thr Met Asp Ser Ser  
                     35                    40                    45  
 Gly Pro Lys His Leu Asn Met Lys Leu Thr Arg Ala Gln Phe Glu Gly  
           50                    55                    60  
 Ile Val Thr Asp Leu Ile Arg Arg Thr Ile Ala Pro Cys Gln Lys Ala  
   65                    70                    75                    80  
 Met His Asp Ala Glu Val Ile Leu Ser Asp Ile Xaa Glu Val Xaa Pro  
                     85                    90                    95  
 Val Xaa Gly Met Thr Arg Met Pro Met Phe Xaa Arg Leu  
                     100                    105

<210> 6825  
 <211> 48

## 6052

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6825

Ala	Arg	Glu	Xaa	Thr	Lys	Lys	Leu	Arg	Glu	Gln	Gly	Ser	Leu	Leu	Gly
1				5				10					15		

Lys	Leu	Val	Gln	Asn	Gly	Thr	Glu	Pro	Ser	Ser	Leu	Pro	Phe	Leu	Asp
			20					25					30		

Pro	Asn	Ala	Arg	Pro	Leu	Val	Pro	Glu	Val	Ser	Ile	Lys	Val	Gln	Arg
		35					40					45			

&lt;210&gt; 6826

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (61)



## 6053

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6826

Thr	Ala	Leu	Asn	Asn	Leu	Xaa	Pro	Asn	Tyr	Ala	Xaa	Glu	Lys	Leu	Gln
1				5					10					15	

Gln	Gln	Phe	Asn	Met	His	Val	Phe	Lys	Leu	Glu	Gln	Glu	Glu	Tyr	Met
			20					25					30		

Lys	Glu	Asp	Ile	Pro	Trp	Thr	Leu	Ile	Asp	Phe	Tyr	Asp	Xaa	Gln	Pro
		35					40					45			

Val	Phe	Asp	Leu	Ile	Glu	Xaa	Lys	Trp	Glu	Ser	Trp	Xaa	Phe	Trp	Xaa
	50					55					60				

Lys	Asn	Xaa	Cys	Phe
65				

<210> 6827

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6827

## 6054

Cys Leu Ser Trp Glu Arg Arg Gly Pro Ser Ser Ala Pro Pro Thr Val  
 1 5 10 15  
 Trp Glu Thr Val Pro Ser Pro Leu Leu Gly Ser Lys His Leu Phe Pro  
 20 25 30  
 Val Leu Met Glu Ser Trp Cys Leu Ser Pro Ser Ala Ala Gln Lys Leu  
 35 40 45  
 Cys Arg Leu Leu Gly Leu Gly Val Thr Asp Phe Ser Arg Ala Leu Leu  
 50 55 60  
 Thr Pro Arg Ile Lys Val Gly Arg Asp Tyr Val Gln Lys Ala Gln Thr  
 65 70 75 80  
 Lys Glu Gln Val Xaa Gly Ala Gly Gly Gly Gln Xaa Thr Xaa Arg Ala  
 85 90 95

&lt;210&gt; 6828

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6828

Leu Glu Asp Leu His Asp Leu Leu Ala Ser Leu Xaa Asn Asn Ala Xaa  
 1 5 10 15

## 6055

Asp Asp Tyr Leu Asn Ala Met Xaa Ser Glu Ala Pro Met Pro Ile Xaa  
                   20                  25                  30

Phe Ala Met Phe Leu Thr Met  
                   35

<210> 6829

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6829

Lys Val Leu Met Arg Asn Leu Ala Leu Pro Glu Asp Val Arg Gly Lys  
   1                  5                  10                  15

Cys Thr Ser Leu Leu Gln Leu Tyr Asp Ala Ser Asn Ser Glu Trp Gln  
                   20                  25                  30

Leu Gly Lys Thr Lys Val Phe Leu Arg Glu Ser Leu Glu Gln Lys Leu  
                   35                  40                  45

Glu Lys Arg Arg Glu Glu Glu Val Ser His Ala Ala Met Val Ile Arg  
                   50                  55                  60

Ala His Val Leu Gly Phe Leu Ala Arg Lys Gln Tyr Arg Lys Val Leu  
   65                  70                  75                  80

Tyr Cys Val Val Ile Ile Gln Lys Asn Tyr Arg Ala Phe Leu Leu Arg  
                   85                  90                  95

Arg Arg Phe Leu His Leu Lys Lys Ala Ala Ile Val Phe Gln Lys Gln  
                   100                  105                  110

Leu Arg Gly Gln Ile Ala Arg Arg Val Tyr Arg Gln Phe Ala Gly Arg  
                   115                  120                  125

Glu Lys Gly Ala Arg Xaa Lys Lys  
                   130                  135

<210> 6830

<211> 69

## 6056

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6830

Asn	Ser	Leu	Ala	Lys	Glu	Thr	Leu	Glu	Pro	Leu	Ser	Gln	Ala	Ala	Trp
1				5					10					15	

Leu	Leu	Gln	Val	Lys	Lys	Thr	Thr	Asp	Ser	Asp	Ala	Lys	Xaa	Ile	Tyr
		20						25					30		

Glu	Arg	Cys	Thr	Ser	Leu	Ser	Ala	Val	Gln	Ile	Ile	Lys	Xaa	Leu	Asn
		35					40					45			

Ser	Tyr	Thr	Pro	Ile	Asp	Asp	Phe	Glu	Lys	Arg	Val	Thr	Pro	Ser	Phe
	50					55					60				

Val	Arg	Lys	Val	Gln
65				

&lt;210&gt; 6831

&lt;211&gt; 179

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6831

Gly	Lys	Arg	Tyr	Ile	Lys	Ala	Leu	Ala	Glu	Glu	Asn	Arg	Asn	Val	Val
1				5					10					15	

Asp	Gly	Pro	Tyr	Ala	Gly	Val	Met	Thr	Ala	Tyr	Asp	Leu	Lys	Lys	Thr
		20						25					30		

Leu	Ala	Val	Leu	Leu	Asp	Asn	Ile	Leu	Gln	Arg	Ile	Gly	Lys	Leu	Glu
		35					40					45			

Ser	Lys	Val	Asp	Asn	Leu	Val	Val	Asn	Gly	Thr	Gly	Thr	Asn	Ser	Thr
	50					55					60				

Asn	Ser	Thr	Thr	Ala	Val	Pro	Ser	Leu	Val	Ala	Leu	Glu	Lys	Ile	Asn
65					70					75				80	

**6057**

Val Ala Asp Ile Ile Asn Gly Ala Gln Glu Lys Cys Val Leu Pro Pro  
                             85                            90                            95  
 Met Asp Gly Tyr Pro His Cys Glu Gly Lys Ile Lys Trp Met Lys Asp  
                             100                            105                            110  
 Met Trp Arg Ser Asp Pro Cys Tyr Ala Asp Tyr Gly Val Asp Gly Ser  
                             115                            120                            125  
 Thr Cys Ser Phe Phe Ile Tyr Leu Ser Glu Val Glu Asn Trp Cys Pro  
                             130                            135                            140  
 His Leu Pro Trp Arg Ala Lys Asn Pro Tyr Glu Glu Ala Asp His Asn  
                             145                            150                            155                            160  
 Ser Leu Ala Glu Ile Leu Gln Ile Phe Asn Ile Leu Tyr Ser Met Met  
                             165                            170                            175  
 Lys Lys Ala

<210> 6832  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 6832  
 Ala Cys Arg Asp Val Arg Arg Leu Ser Leu Ser Val Met Ala Leu Lys  
     1                            5                            10                            15  
 Glu Gln Thr Ile Pro Pro Ser Ala Lys Tyr Gly Gly Arg His Thr Val  
                             20                            25                            30  
 Thr Met Ile Pro Gly Asp Gly Ile Gly Pro Glu Leu Met Leu His Val  
                             35                            40                            45  
 Lys Ser Val Phe Arg His Ala Cys Val Thr Ser Gly Leu  
                             50                            55                            60

<210> 6833  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 6833  
 Gln Lys Leu Ala Pro Ile Ser Ile Ile Tyr Gln Ile Ser Pro Ser Leu

## 6058

1                    5                    10                    15  
Asn Val Ser Leu Leu Leu Thr Leu Ser Ile Leu Ser Ile Ile Ala Gly  
                  20                    25                    30

Ser

<210> 6834

<211> 29

<212> PRT

<213> Homo sapiens

<400> 6834

Thr Ile Thr Asn Thr Thr Asn Gln Tyr Ser Ser Leu Ile Ile Ile Met  
1                    5                    10                    15

Ala Ile Ala Ile Lys Leu Gly Ile Ala Pro Phe His Phe  
                  20                    25

<210> 6835

<211> 21

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6835

Xaa Gly Leu Asn Gln Thr Gln Leu Arg Lys Ile Leu Ala Tyr Ser Ser  
1                    5                    10                    15

Ile Thr His Ile Xaa  
                  20

<210> 6836

<211> 29

<212> PRT

## 6059

<213> Homo sapiens

<400> 6836

Thr Ile Thr Asn Thr Thr Asn Gln Tyr Ser Ser Leu Ile Ile Ile Met  
1 5 10 15  
Ala Ile Ala Ile Lys Leu Gly Ile Ala Pro Phe His Phe  
20 25

<210> 6837

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6837

Leu Thr Pro Leu Ile Pro Ser Thr Leu Xaa Ser Leu Gly Xaa Leu Pro  
1 5 10 15  
Pro Leu Thr Gly Phe Leu Pro Lys Trp Ala Ile Ile Glu Glu Phe Thr  
20 25 30  
Thr Asn Xaa Ser Leu Ile Ile Pro Thr Ile Xaa Xaa His Ile Thr Ser  
35 40 45

## 6060

Leu Asn Ser Asn Ser Asn Tyr Ala  
 50 55

<210> 6838  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 6838  
 Leu Pro Gln Leu Asn Gly Tyr Ile Glu Lys Ser Thr Pro Tyr Glu Cys  
 1 5 10 15  
 Gly Phe Asp Pro Ile Ser Pro Ala Arg Val Pro Phe Ser Ile Lys Phe  
 20 25 30  
 Phe Leu Val Ala Ile Thr Phe Leu Leu Phe Asp Leu Glu Ile Ala Leu  
 35 40 45  
 Leu Leu Pro Leu Pro  
 50

<210> 6839  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6839  
 Ser Xaa Thr Gly Ala Val Ile Leu Ile Ile Ala His Gly Leu Thr Ser  
 1 5 10 15  
 Ser Leu Leu Phe Cys Leu Ala Asn Ser Asn Tyr Glu Arg Thr His Arg  
 20 25 30



## 6061

Arg Xaa Ile Ile Leu Ser Gln Gly Leu Gln Thr Leu Leu Pro Leu Ile  
35 40 45

Xaa Phe  
50

<210> 6840  
<211> 16  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6840  
Ile Ile Met Ala Ile Xaa Ile Lys Leu Gly Ile Ala Pro Phe His Phe  
1 5 10 15

<210> 6841  
<211> 152  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (61)

## 6062

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6063

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (127)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (130)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6841

Pro	Leu	Ser	Lys	Val	Pro	Leu	Gln	Xaa	Asn	Phe	Gln	Asp	Asn	Gln	Phe
1				5					10					15	

Gln	Gly	Lys	Trp	Tyr	Val	Val	Gly	Leu	Ala	Xaa	Asn	Ala	Ile	Leu	Arg
			20					25					30		

Glu	Asp	Lys	Asp	Pro	Gln	Lys	Met	Tyr	Ala	Thr	Ile	Tyr	Glu	Leu	Lys
		35					40					45			

Glu	Asp	Xaa	Ser	Tyr	Asn	Val	Thr	Ser	Val	Leu	Phe	Xaa	Lys	Lys	Lys
		50				55					60				

Cys	Asp	Tyr	Trp	Ile	Xaa	Thr	Phe	Val	Pro	Xaa	Cys	Xaa	Pro	Gly	Glu
65					70					75					80

Phe	Thr	Leu	Gly	Asn	Ile	Xaa	Xaa	Tyr	Pro	Gly	Leu	Thr	Xaa	Tyr	Leu
				85					90					95	

Val	Arg	Val	Val	Xaa	Thr	Thr	Thr	Thr	Ser	Met	Leu	Trp	Cys	Ser	Ser
			100					105					110		

Lys	Lys	Phe	Leu	Xaa	Thr	Xaa	Asn	Ser	Ser	Xaa	Ser	Pro	Leu	Xaa	Lys
		115					120					125			

Asn	Xaa	Glu	Leu	Asp	Phe	Arg	Asn	Leu	Lys	Glu	Lys	Leu	Pro	Pro	Pro
		130				135					140				

Pro	Pro	Asn	Ser	Pro	Gly	Pro	Pro
145					150		

&lt;210&gt; 6842

&lt;211&gt; 116

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

## 6064

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (72)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (97)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (98)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (102)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (108)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (113)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6842

Trp	Gly	Met	Ser	Cys	His	Gly	Leu	Gly	Arg	Thr	Glu	Ser	Asn	Arg	Thr
1				5					10					15	

Leu	Leu	Leu	Pro	Trp	Pro	His	Leu	Val	Gln	His	Arg	Arg	Pro	Lys	Pro
			20					25					30		

Gly	Leu	Ser	Pro	Leu	Ser	Pro	Thr	His	Leu	Ser	Leu	Pro	Arg	Lys	Lys
		35					40					45			

Lys	Cys	Asp	Tyr	Trp	Ile	Arg	Thr	Phe	Val	Pro	Xaa	Cys	Gln	Pro	Gly
	50					55					60				

Glu	Phe	Thr	Leu	Gly	Asn	Ile	Xaa	Ser	Tyr	Pro	Gly	Leu	Thr	Ser	Tyr
65					70					75					80

Leu	Val	Arg	Met	Val	Ser	Thr	Asn	Tyr	Asn	Gln	His	Ala	Met	Val	Phe
				85					90					95	

## 6065

Xaa Xaa Lys Val Ser Xaa Asn Arg Glu Val Leu Xaa Glu His Leu Leu  
100 105 110

Xaa Glu Asn Gln  
115

<210> 6843  
<211> 70  
<212> PRT  
<213> Homo sapiens

<400> 6843  
Arg Thr Gly Arg Trp Gly Gln Glu Met Val Leu Leu Ser Thr Leu Gly  
1 5 10 15

Ile Val Phe Gln Gly Glu Gly Pro Pro Ile Ser Ser Cys Asp Thr Gly  
20 25 30

Thr Met Ala Asn Cys Glu Arg Thr Phe Ile Ala Ile Lys Pro Asp Gly  
35 40 45

Val Gln Arg Gly Leu Val Gly Glu Ile Ile Lys Arg Phe Glu Gln Lys  
50 55 60

Gly Ser Ala Leu Leu Val  
65 70

<210> 6844  
<211> 138  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (122)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (131)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (132)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 6066

&lt;400&gt; 6844

Leu Glu Ala Leu Phe Ser Asp Val Asn Met Gln Glu Tyr Pro Asp Leu  
 1 5 10 15

Ile His Ile Tyr Lys Gly Phe Glu Asn Val Ile His Asp Lys Leu Pro  
 20 25 30

Leu Gln Glu Ser Glu Glu Glu Glu Arg Glu Glu Arg Ser Gly Leu Gln  
 35 40 45

Leu Ser Leu Glu Gln Gly Thr Gly Glu Asn Ser Phe Arg Ser Leu Thr  
 50 55 60

Trp Pro Pro Ser Gly Ser Pro Ser His Ala Gly Thr Thr Pro Pro Glu  
 65 70 75 80

Asn Gly Leu Ser Glu His Pro Cys Glu Thr Glu Gln Ile Asn Ala Lys  
 85 90 95

Arg Lys Asp Thr Thr Ser Asp Lys Asp Asp Ser Leu Gly Ser Gln Gln  
 100 105 110

Thr Asn Glu Gln Cys Ala Gln Lys Ala Xaa Pro Thr Glu Val Cys Glu  
 115 120 125

Pro Ile Xaa Xaa Pro Ser Glu Ile Trp Gly  
 130 135

&lt;210&gt; 6845

&lt;211&gt; 133

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (128)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6845

Val His Leu Thr Lys Gly Xaa Lys Ala Gly Ala Pro Pro Arg Cys Gly  
 1 5 10 15

Arg Ser Arg Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Asp

## 6067

20 25 30  
 Ser Val Leu Arg Gly Cys Ser Leu Glu Gln Arg Ser Phe Ile Ser Val  
 35 40 45  
 Arg Leu Leu Ser Tyr Leu Ser Ala Cys Arg His Pro Met Glu Asp Ser  
 50 55 60  
 Met Asp Met Asp Met Ser Pro Leu Arg Pro Gln Asn Tyr Leu Phe Gly  
 65 70 75 80  
 Cys Glu Leu Lys Ala Asp Lys Asp Tyr His Phe Lys Val Asp Asn Asp  
 85 90 95  
 Glu Asn Glu His Gln Leu Ser Leu Arg Thr Val Ser Leu Gly Ala Gly  
 100 105 110  
 Ala Lys Asp Glu Leu His Ile Val Glu Ala Glu Ala Met Asn Tyr Xaa  
 115 120 125  
 Gly Ser Pro Leu Lys  
 130

&lt;210&gt; 6846

&lt;211&gt; 146

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (143)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6846

Glu Lys Ser Arg Glu His Glu Ile Asp Gly Arg Ser Ile Ser Leu Tyr  
 1 5 10 15  
 Tyr Thr Gly Glu Lys Gly Gln Asn Gln Asp Tyr Arg Gly Gly Lys Asn  
 20 25 30  
 Ser Thr Trp Ser Gly Glu Ser Lys Thr Leu Val Leu Ser Asn Leu Ser  
 35 40 45  
 Tyr Ser Ala Thr Glu Glu Thr Leu Gln Glu Val Phe Glu Lys Ala Thr  
 50 55 60  
 Phe Ile Lys Val Pro Gln Asn Gln Asn Gly Lys Ser Lys Gly Tyr Ala  
 65 70 75 80

**6068**

Phe Ile Glu Phe Ala Ser Phe Glu Asp Ala Lys Glu Ala Leu Asn Ser  
                             85                            90                            95  
 Cys Asn Lys Arg Glu Ile Glu Gly Arg Ala Ile Arg Leu Glu Leu Gln  
                             100                            105                            110  
 Gly Pro Arg Gly Ser Pro Asn Ala Arg Ser Gln Pro Ser Lys Thr Leu  
                             115                            120                            125  
 Phe Val Lys Gly Leu Ser Glu Asp Thr Thr Glu Glu Thr Leu Xaa Gly  
                             130                            135                            140  
 Val Ile  
 145

&lt;210&gt; 6847

&lt;211&gt; 110

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (74)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (76)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (88)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (96)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids



## 6069

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (98)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (102)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (103)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6847

Ser	Gly	Ser	Xaa	Phe	Trp	Lys	Ala	Leu	Thr	Phe	Met	Ala	Val	Gly	Gly
1				5					10					15	

Gly	Leu	Ala	Val	Ala	Gly	Leu	Pro	Ala	Leu	Gly	Phe	Thr	Gly	Ala	Gly
			20					25					30		

Ile	Ala	Ala	Asn	Ser	Val	Ala	Ala	Ser	Leu	Met	Xaa	Trp	Ser	Ala	Ile
			35					40				45			

Leu	Asn	Gly	Gly	Gly	Val	Pro	Ala	Gly	Gly	Leu	Val	Ala	Thr	Leu	Gln
	50					55					60				

Ser	Leu	Gly	Ala	Gly	Gly	Ser	Lys	Val	Xaa	Ile	Xaa	Asn	Ile	Gly	Ala
65					70					75					80

Leu	Met	Gly	Tyr	Ala	Thr	His	Xaa	Tyr	Leu	Asp	Ser	Glu	Glu	Asp	Xaa
				85					90					95	

Glu	Xaa	Pro	Ala	Ala	Xaa	Xaa	Thr	Ser	Ser	Ser	Phe	Leu	Ala
			100					105					110

&lt;210&gt; 6848

&lt;211&gt; 87

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 6070

<221> SITE  
<222> (59)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (70)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (80)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6848  
His Leu Cys Ala Glu Ser Asp Ser Val Leu Arg Val Thr Arg Arg Gly  
1 5 10 15  
Glu Gln Ala Asp His Phe Thr Gln Thr Pro Leu Xaa Pro Gly Ser Gln  
20 25 30  
Val Leu Val Arg Val Asp Trp Glu Arg Arg Phe Asp His Met Gln Gln  
35 40 45  
His Ser Gly Gln His Leu Ile Thr Ala Val Xaa Asp His Leu Phe Lys  
50 55 60  
Leu Lys Thr Thr Ser Xaa Glu Leu Gly Arg Phe Arg Ser Ala Ile Xaa  
65 70 75 80  
Leu Asp Thr Pro Ser Met Thr  
85

<210> 6849  
<211> 122  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (73)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (91)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6849

## 6071

Asn Pro Ala Leu Glu Leu Lys Arg Ala Thr Trp Leu Asn Ala Glu Lys  
 1 5 10 15

Asn Gly Gln Arg Pro Lys Thr Gln Leu Leu Pro Gln Lys Thr Thr Cys  
 20 25 30

Gln Lys Ile Pro Arg Asn Asn Arg Leu Met Tyr Ile His Ser Tyr Gln  
 35 40 45

Ser Tyr Val Trp Asn Asn Met Val Ser Lys Arg Ile Glu Asp Tyr Gly  
 50 55 60

Leu Asn Leu Phe Gln Gly Thr Ser Xaa Ser Lys Asp Pro Ser Pro Tyr  
 65 70 75 80

Ile Glu Glu Asp Asp Val Ile Ile Thr Leu Xaa Met Met Trp Glu Cys  
 85 90 95

Leu Ala Trp Phe Arg Trp Tyr Leu Pro Gln Ala Leu Lys Phe Lys Lys  
 100 105 110

Pro Thr Gly Lys Cys Ser Gln Leu Thr Ile  
 115 120

<210> 6850

<211> 81

<212> PRT

<213> Homo sapiens

<400> 6850

Cys Thr Ile Cys Thr Ala Thr Ser Arg Val Gly Val Ile Gly Ile Gly  
 1 5 10 15

Gly Leu Gly His Ile Ala Ile Lys Leu Leu His Ala Met Gly Cys Glu  
 20 25 30

Val Thr Ala Phe Ser Ser Asn Pro Ala Lys Glu Gln Glu Val Leu Ala  
 35 40 45

Met Gly Ala Asp Lys Val Val Asn Ser Arg Asp Pro Gln Ala Leu Lys  
 50 55 60

Ala Leu Ala Gly Gln Phe Asp Leu Ile Ile Asn Thr Val Asn Val Ser  
 65 70 75 80

Leu

## 6072

<210> 6851

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6851

Ala	Xaa	Xaa	Thr	Glu	Asn	Cys	Lys	Ile	Leu	Met	Thr	Lys	Ile	Lys	Glu
1				5				10					15		

Asp	Ile	Asn	Lys	Trp	Arg	Asn	Ile	Pro	Cys	Ser	Trp	Ile	Gly	Arg	Leu
			20				25					30			

Thr	Leu	Leu	Asn	Cys	His	Phe	Ser	Pro	Asp	Gly	Ser	Thr	Glu	Ser	Thr
		35					40					45			

<210> 6852

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

**6073**

&lt;400&gt; 6852

Ala Ala Ala Ala Ala Arg Arg Asp Ala Ala Glu Val Phe Leu Val Ser  
 1 5 10 15  
 Asp Pro Ser Gly Arg Met Val Lys Ser Ser Leu Gln Arg Ile Leu Asn  
 20 25 30  
 Ser His Cys Phe Ala Arg Glu Lys Glu Gly Asp Lys Pro Ser Ala Thr  
 35 40 45  
 Ile His Ala Xaa Arg Thr Met Pro Leu Leu Ser Leu His Xaa Pro Xaa  
 50 55 60

&lt;210&gt; 6853

&lt;211&gt; 106

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6853

Lys Gln Ser Pro Glu Leu Val Lys Lys His Lys Lys Lys Arg Val Val  
 1 5 10 15  
 Pro Lys Lys Pro Pro Pro Ser Pro Gln Pro Thr Gly Lys Ile Glu Ile  
 20 25 30  
 Lys Ile Val Arg Pro Trp Ala Glu Gly Thr Glu Glu Gly Ala Arg Trp  
 35 40 45  
 Leu Thr Asp Glu Asp Thr Arg Asn Leu Lys Glu Ile Phe Phe Asn Ile  
 50 55 60  
 Leu Val Pro Gly Ala Glu Glu Ala Gln Lys Glu Arg Gln Arg Gln Lys  
 65 70 75 80  
 Glu Leu Glu Ser Asn Tyr Arg Arg Val Trp Gly Ser Pro Gly Gly Glu  
 85 90 95  
 Gly Thr Gly Asp Leu Asp Glu Phe Asp Phe  
 100 105

&lt;210&gt; 6854

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

## 6074

&lt;400&gt; 6854

Asn Arg Leu Phe Arg Lys Ser Cys Thr Ser Leu Lys Phe Leu Thr Phe  
 1 5 10 15

Thr Cys Phe Phe Gln Ser Tyr Leu Tyr Gln Ile Leu Gln Gly Ile Val  
 20 25 30

Phe Cys His Ser Arg Arg Val Leu His Arg Asp Leu  
 35 40

&lt;210&gt; 6855

&lt;211&gt; 82

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6855

Ala Arg Ala Glu Phe Gly Thr Ser Gly Thr Ser Lys Gly Ser Cys Phe  
 1 5 10 15

His Arg Ile Ile Pro Gly Phe Met Cys Gln Gly Gly Asp Phe Thr Arg  
 20 25 30

His Asn Gly Thr Gly Gly Lys Ser Ile Tyr Gly Glu Lys Phe Glu Asp  
 35 40 45

Xaa Asn Phe Ile Leu Lys His Thr Gly Pro Gly Ile Leu Ser Met Ala  
 50 55 60

Asn Ala Gly Pro Asn Thr Asn Gly Ser Gln Phe Phe Ile Cys Thr Ala  
 65 70 75 80

Gln Asp

&lt;210&gt; 6856

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

## 6075

<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6856  
Val Asn Ser Leu Pro Gly Ser Pro Asp Leu Val Asp Tyr Thr Leu Ser  
1 5 10 15  
Xaa Pro Ala Arg Ala Xaa Xaa Thr Xaa Arg Thr Arg Gly Gly Thr His  
20 25 30

<210> 6857  
<211> 69  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6857

## 6076

Ile Gly Gly Xaa Ile Pro Ala Gly Pro Gln Cys Thr Leu Val Ser Arg  
 1 5 10 15  
 Ala Pro Gln Thr Leu Lys Met Asp Glu Leu Leu Ala Glu Met Gln Gln  
 20 25 30  
 Thr Xaa Glu Ser Asn Phe Leu Gln Ala Pro Gln Arg Ala Pro Gly Val  
 35 40 45  
 Xaa Asp Leu Ala Leu Ser Glu Asn Trp Ala Gln Ser Asp Leu Gln Leu  
 50 55 60  
 Glu Met Leu Trp Met  
 65

&lt;210&gt; 6858

&lt;211&gt; 127

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (104)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (105)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (111)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6858

Leu Trp Arg Val Trp Gly Ala Glu Pro Arg Ala Pro Val Gly Pro Leu  
 1 5 10 15

Leu Trp Arg Trp Ala Gln Pro Gly Ala Ala Ser Phe Glu Gly Arg Arg  
 20 25 30

Asp Leu Phe Lys Gly Val Glu Thr Gly Arg Lys Arg Pro Arg Leu Gly  
 35 40 45

Phe Gln Gly Ala Gly Asn Val Asn Arg Arg Leu Ala Cys Pro Leu Thr  
 50 55 60

Val Ala Pro Ser Ser Pro Arg Lys Met Phe Ser Ser Val Ala His Leu



## 6077

65		70		75		80
Ala Arg Ala Asn Pro Phe Asn Thr Pro His Leu Gln Leu Val His Asp						
	85		90		95	
Gly Leu Gly Asp Leu Arg Ser Xaa Xaa Pro Gly Pro Thr Gly Xaa Pro						
	100		105		110	
Arg Arg Leu Ala Thr Cys Ser Arg Arg Arg Gly Arg Val Gln Leu						
	115		120		125	

&lt;210&gt; 6859

&lt;211&gt; 113

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (72)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (88)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (91)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (101)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (105)

## 6078

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6859

Ile	Arg	His	Xaa	Val	Lys	Arg	Gly	Leu	Val	Leu	Arg	Asn	Glu	Lys	Cys
1				5					10					15	

Asn	Glu	Asn	Tyr	Thr	Thr	Asp	Phe	Ile	Phe	Asn	Leu	Tyr	Ser	Glu	Glu
			20					25					30		

Gly	Lys	Gly	Ile	Phe	Asp	Ser	Arg	Xaa	Asn	Val	Leu	Gly	His	Met	Gln
		35					40					45			

Gln	Gly	Gly	Ser	Pro	Thr	Pro	Phe	Asp	Arg	Asn	Phe	Ala	Thr	Lys	Met
	50					55					60				

Gly	Ala	Lys	Ala	Met	Asn	Trp	Xaa	Ser	Gly	Lys	Ile	Lys	Lys	Asn	Tyr
65					70					75					80

Arg	Asn	Gly	Arg	Ile	Phe	Ala	Xaa	Thr	Pro	Xaa	Pro	Ala	Leu	Phe	Leu
				85					90					95	

Gly	Tyr	Leu	Lys	Xaa	Leu	Val	Phe	Xaa	Gln	Trp	Leu	Thr	Glu	Arg	Gln
		100						105					110		

Xaa

<210> 6860

<211> 70

<212> PRT

<213> Homo sapiens

<400> 6860

Met	Glu	Arg	Gly	Lys	Ile	Gln	Val	Ser	Thr	Asp	Phe	Ala	Met	Gln	Asn
1				5					10					15	

Val	Leu	Leu	Gln	Met	Gly	Leu	His	Val	Leu	Ala	Val	Asn	Gly	Met	Leu
			20					25					30		

Ile	Arg	Glu	Ala	Arg	Ser	Tyr	Ile	Leu	Arg	Cys	His	Gly	Cys	Phe	Lys
		35					40					45			

Thr	Thr	Ser	Asp	Met	Ser	Arg	Val	Phe	Cys	Ser	His	Cys	Gly	Asn	Lys
	50					55					60				

## 6079

Thr Leu Lys Lys Cys Pro  
65 70

<210> 6861

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6861

Val Ala Pro Thr Gly Pro Met Ala Ala Pro Gly Ala Pro Ala Glu Tyr  
1 5 10 15

Gly Tyr Ile Arg Thr Val Leu Gly Gln Gln Ile Leu Gly Gln Leu Asp  
20 25 30

Ser Ser Ser Leu Ala Leu Pro Ser Glu Ala Lys Leu Lys Leu Ala Gly  
35 40 45

Ser Ser Gly Arg Gly Gly Gln Thr Val Lys Ser Leu Arg Ile Gln Glu  
50 55 60

Gln Val Gln Gln Thr Leu Xaa Arg Lys Ala Ala Ala Pro Trp Ala Thr  
65 70 75 80

Glu Ile Phe Thr Glu Pro Ala Val Phe  
85

<210> 6862

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6080

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (69)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (88)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6862  
Ser Xaa Arg Phe Gly Thr Arg Arg Gly Ser Ser His Leu Ser Gln Trp  
1 5 10 15

Leu Asn Asn Xaa Phe Ala Leu Pro Phe Ser Xaa Met Ala Ser Xaa Leu

```

      20      25      30
Asp Met Ser Xaa Val Val Gly Ala Gly Xaa Lys His Thr Pro Asp Ser
      35      40      45
Xaa Asn Lys Cys Ser Xaa Trp Gly Leu Cys His Lys Leu His Arg Ser
      50      55      60
Leu Ser Ser Pro Xaa Ala Ser Gly Lys Xaa Leu Gln Leu His Ser His
      65      70      75      80
His Pro Val Pro Gln Lys Arg Xaa Pro Ile
      85      90
<210> 6863
<211> 138
<212> PRT
<213> Homo sapiens
<400> 6863
Ser Asp Ser Asp Lys Glu Trp Ile Ala Ala Leu Arg Arg Lys Tyr Arg
  1      5      10
Ser Arg Glu Gln Thr Leu Ser Ser Ser Gly Glu Ser Trp Glu Thr Leu
      20      25      30
Pro Gly Lys Glu Glu Arg Glu Pro Pro Gln Ala Lys Val Ser Ala Ser
      35      40      45
Thr Gly Thr Ser Pro Gly Pro Gly Ala Ser Ala Ser Ala Gly Ala Gly
      50      55      60
Ala Gly Ala Asn Ala Gly Ser Asn Gly Ser Asn Tyr Leu Glu Glu Val
      65      70      75      80
Arg Glu Pro Ser Leu Gln Glu Glu Gln Ala Ser Leu Glu Glu Gly Glu
      85      90      95
Ile Pro Trp Leu Gln Tyr His Glu Asn Asp Ser Ser Ser Glu Gly Asp
      100      105      110
Asn Asp Ser Gly His Glu Leu Met Gln Pro Gly Val Phe Met Leu Asp
      115      120      125
Gly Asn Thr Thr Leu Lys Met Thr Ser Val
      130      135

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## 6082

&lt;210&gt; 6864

&lt;211&gt; 159

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (145)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (150)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (154)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6864

Val	Phe	Xaa	Gln	Phe	Asn	Gly	Lys	Arg	Cys	Thr	Asp	Ala	Val	Gly	Asp
1				5					10					15	

Arg	Arg	Gln	Cys	Val	Pro	Thr	Glu	Pro	Cys	Glu	Asp	Ala	Glu	Asp	Asp
			20					25					30		

Cys	Gly	Asn	Asp	Phe	Gln	Cys	Ser	Thr	Gly	Arg	Cys	Ile	Lys	Met	Arg
		35					40					45			

Leu	Arg	Cys	Asn	Gly	Asp	Asn	Asp	Cys	Gly	Asp	Phe	Ser	Asp	Glu	Asp
	50					55					60				

Asp	Cys	Glu	Ser	Glu	Pro	Arg	Pro	Pro	Cys	Arg	Asp	Arg	Val	Val	Glu
65					70					75					80

Glu	Ser	Glu	Leu	Ala	Leu	Thr	Ala	Gly	Tyr	Gly	Ile	Asn	Ile	Leu	Gly
				85					90					95	

Met	Asp	Pro	Leu	Ser	Thr	Pro	Phe	Asp	Asn	Glu	Phe	Tyr	Asn	Gly	Leu
			100					105					110		

Cys	Asn	Arg	Asp	Arg	Asp	Gly	Asn	Thr	Leu	Thr	Tyr	Tyr	Arg	Arg	Pro
	115						120					125			

Trp	Asn	Val	Ala	Ser	Leu	Ile	Tyr	Glu	Thr	Lys	Gly	Glu	Lys	Asn	Phe
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 6083

130                                      135                                      140  
 Xaa Thr Glu His Ser Xaa Asn Lys Leu Xaa His Leu Lys Val Ser  
 145                                      150                                      155  
  
 <210> 6865  
 <211> 86  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 6865  
 Lys Asn Ser Ser Glu Gly Asn Lys His His Lys Ser Thr Pro Leu Leu  
 1                                      5                                      10                                      15  
  
 Ile His Cys Arg Asp Gly Ser Gln Gln Thr Gly Ile Phe Cys Ala Leu  
 20                                      25                                      30  
  
 Leu Asn Leu Leu Glu Ser Ala Glu Thr Glu Glu Val Val Asp Ile Phe  
 35                                      40                                      45  
  
 Gln Val Val Lys Ala Leu Arg Lys Ala Arg Pro Gly Met Val Ser Thr  
 50                                      55                                      60  
  
 Phe Glu Gln Tyr Gln Phe Leu Tyr Asp Arg His Cys Gln His Leu Pro  
 65                                      70                                      75                                      80  
  
 Cys Ser Glu Trp Thr Arg  
 85

<210> 6866  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 6866  
 Ile Arg Val Asn Ala Val Asn Pro Thr Val Val Met Thr Ser Met Gly  
 1                                      5                                      10                                      15  
  
 Gln Ala Thr Trp Ser Asp Pro His Lys Ala Lys Thr Met Leu Asn Arg  
 20                                      25                                      30  
  
 Ile Pro Leu Gly Lys Phe Ala Glu Val Glu His Val Val Asn Gly Ile  
 35                                      40                                      45  
  
 Leu Phe Leu Leu Ser  
 50

## 6084

<210> 6867  
<211> 34  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6867  
Thr Met Xaa Phe Phe Lys Ile Leu Arg Gly Gln Asp His Cys Gly Xaa  
1 5 10 15  
Glu Ser Glu Val Val Ala Gly Ile Pro Arg Thr Asp Gln Tyr Trp Glu  
20 25 30

Lys Ile

<210> 6868  
<211> 78  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE



## 6085

<222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (54)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (56)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (57)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (58)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 6868  
 His Ile Xaa Ala Pro Ala Ala Xaa Pro Lys Ala Thr Pro Ile Thr Thr  
   1                  5                  10                  15  
  
 Pro Trp Pro Gly Gly Asn Ala Tyr Ile Asp Asn Leu Xaa Ala Asp Gly  
                   20                  25                  30  
  
 Asp Leu Xaa Glu Arg Gly Ile Val Ala Thr Arg Thr Arg Xaa Pro Ser  
           35                  40                  45  
  
 Gly Arg Xaa Pro Arg Xaa Thr Xaa Xaa Xaa Leu Thr Gln Ala Glu Val  
   50                  55                  60  
  
 Val Ser Trp Leu Ala Lys Thr Gly Lys Phe Tyr Phe Asn Gly  
   65                  70                  75

## 6086

&lt;210&gt; 6869

&lt;211&gt; 86

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6869

Lys Arg Gly His Tyr Gly Val Gln Arg Thr Glu Leu Leu Pro Gly Asp  
1 5 10 15

Arg Asp Asn Leu Ala Ile Gln Thr Arg Gly Gly Pro Glu Lys His Glu  
20 25 30

Val Thr Gly Trp Val Leu Val Ser Pro Leu Ser Lys Glu Asp Ala Gly  
35 40 45

Glu Tyr Glu Cys His Ala Ser Asn Ser Gln Gly Gln Ala Ser Ala Ser  
50 55 60

Ala Lys Ile Thr Val Val Asp Ala Leu His Glu Ile Pro Val Lys Lys  
65 70 75 80

Gly Glu Gly Ala Glu Leu  
85

&lt;210&gt; 6870

&lt;211&gt; 159

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (118)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (120)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (124)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (144)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6087

<220>  
 <221> SITE  
 <222> (150)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (154)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6870  
 Asp Arg Glu Gln Lys Ser Tyr Arg Gly His Ser Lys Gln Gln His His  
 1 5 10 15  
 Val Thr Thr Lys Asp Leu His Leu Lys Leu Asn Thr Glu Cys Ser Ile  
 20 25 30  
 Ser Thr Asp Ser Lys Gly Phe Pro Lys Asn Ile Thr Asn Asn Arg Gly  
 35 40 45  
 Lys Lys Arg Tyr Pro Asp Ser Lys Asp Leu Thr Met Val Leu Lys Thr  
 50 55 60  
 Tyr Asp Thr Ser Phe Leu Asp Phe Leu Gln Lys Val Phe Gly Met Gly  
 65 70 75 80  
 Asn Leu Ser Leu Ser His Gly Pro Arg Asp Gln Ala Leu Gln Ala Trp  
 85 90 95  
 Leu Gly Ile Pro Ser Val Phe Gly Asn Leu Gln Ala Thr Ala Gln Ala  
 100 105 110  
 Pro Asp Pro Gly Gly Xaa Ser Xaa Phe Leu Phe Xaa Pro Leu Gly Asp  
 115 120 125  
 Lys Gly Arg Asp Lys Val Ser Arg Val Val Ile His Ser Glu Gln Xaa  
 130 135 140  
 Arg Gln Met Glu Ile Xaa Pro Lys Gly Xaa Pro Gly Glu Thr Lys  
 145 150 155

<210> 6871  
 <211> 103  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)

## 6088

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6871

Gly	Xaa	Trp	Gly	Ile	Ser	Pro	Arg	Gly	Ala	Gly	Tyr	Thr	Phe	Gly	Gln
1				5					10					15	
Asp	Ile	Ser	Glu	Thr	Phe	Asn	His	Ala	Asn	Gly	Leu	Thr	Leu	Val	Ser
			20					25					30		
Arg	Ala	His	Gln	Leu	Val	Met	Glu	Gly	Tyr	Asn	Trp	Cys	His	Asp	Arg
		35					40					45			
Asn	Val	Val	Thr	Ile	Phe	Ser	Ala	Pro	Asn	Tyr	Cys	Tyr	Arg	Cys	Gly
	50					55					60				
Asn	Gln	Ala	Ala	Ile	Met	Glu	Leu	Asp	Asp	Thr	Leu	Lys	Tyr	Ser	Phe
	65				70					75					80
Leu	Gln	Phe	Asp	Pro	Ala	Pro	Arg	Arg	Gly	Glu	Pro	His	Val	Thr	Arg
				85					90					95	
Xaa	Thr	Pro	Asp	Tyr	Phe	Leu									
			100												

<210> 6872

<211> 64

<212> PRT

<213> Homo sapiens

<400> 6872

Tyr	Ile	Ala	Ala	Cys	Leu	Leu	Leu	Tyr	Leu	Ser	Asp	Thr	Ile	Ser	Pro
1				5					10					15	
Glu	Gln	Ala	Ile	Asp	Ser	Leu	Arg	Asp	Leu	Arg	Gly	Ser	Gly	Ala	Ile
			20					25					30		
Gln	Thr	Ile	Lys	Gln	Tyr	Asn	Tyr	Leu	His	Glu	Phe	Arg	Asp	Lys	Leu
		35					40					45			
Ala	Ala	His	Leu	Ser	Ser	Arg	Asp	Ser	Gln	Ser	Arg	Ser	Val	Ser	Arg
		50				55					60				

6089

&lt;210&gt; 6873

&lt;211&gt; 90

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (67)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (82)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (84)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (89)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6873

Ile	Thr	His	Gln	Ile	Arg	Val	Leu	Arg	Leu	Thr	Trp	Val	Leu	Val	Trp
1				5					10					15	

Asn	Val	Leu	Leu	Val	Gln	Trp	Glu	Arg	Val	Leu	Lys	Val	Phe	His	Tyr
			20					25					30		

Phe	Glu	Ser	Asn	Ser	Glu	Pro	Thr	Thr	Trp	Ala	Ser	Ile	Xaa	Arg	His
		35					40					45			

Gly	Asp	Ala	Thr	Asp	Val	Arg	Gly	Ile	Ile	Gln	Lys	Ile	Val	Asp	Ser
	50					55					60				

His	Lys	Xaa	Lys	His	Cys	Gly	Leu	Leu	Trp	Ile	Pro	Ala	Ser	Val	Pro
65					70					75					80

Cys	Xaa	Gln	Xaa	Glu	Gly	Ser	Leu	Xaa	Ser
				85					90

## 6090

&lt;210&gt; 6874

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6874

Arg Ser Phe Gln Glu Tyr Met Ala Gln Met Glu Lys Lys Leu Glu Glu  
 1 5 10 15

Glu Arg Glu Asn Leu Leu Arg Glu His Glu Arg Leu Leu Lys His Lys  
 20 25 30

Leu Lys Val Gln Glu Glu Met Leu Lys Glu Glu Phe Gln Lys Lys Ser  
 35 40 45

Glu Gln Xaa Asn Lys Glu Ile Asn Gln Leu Lys Glu Lys Ile Glu Ser  
 50 55 60

Thr Lys Asn Glu Gln Val Lys Ala Leu Lys Asp Pro  
 65 70 75

&lt;210&gt; 6875

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6875

Pro Arg Val Arg Leu Gly Phe Phe Glu Gly Ser Val Leu Phe Pro Glu  
 1 5 10 15

Pro Leu Thr Trp Met Asp Lys Leu Val Val Glu Tyr Ala Asn Ala Ile  
 20 25 30

Cys Gln Trp Glu Arg Asn Lys Leu Gln Cys Ser Asp Thr Glu Gln Val  
 35 40 45

Glu Ala Asp Leu Glu  
 50

## 6091

<210> 6876  
<211> 84  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6876  
Gly Pro Ala Gln Ala Xaa Phe Lys Phe Pro Gly Arg Gln Lys Ile His  
1 5 10 15  
Ile Ser Lys Lys Trp Gly Phe Thr Lys Phe Asn Ala Asp Glu Phe Glu  
20 25 30  
Asp Met Val Ala Glu Lys Arg Xaa Ala Ser Gln Met Ala Val Gly Ser  
35 40 45  
Ser Thr Ser Pro Val Val Gly Pro Leu Gly Gln Val Ala Gly Pro Ala  
50 55 60  
Leu His Gly Gly Leu Ser Asn Val Leu Ala Pro Leu Leu Asn Thr Ser  
65 70 75 80  
Pro Ile Lys Phe

<210> 6877  
<211> 58  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 6092

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6877

Ile	Xaa	Ser	Glu	Leu	Tyr	Val	Arg	Pro	Asp	Asp	Val	His	Val	Asn	Ile
1				5					10					15	

Arg	Leu	Val	Glu	Leu	Tyr	Arg	Ser	Thr	Lys	Arg	Leu	Lys	Asp	Ala	Val
			20					25					30		

Ala	His	Cys	His	Glu	Ala	Arg	Arg	Asn	Ile	Ala	Leu	Xaa	Xaa	Lys	Phe
		35					40					45			

Arg	Val	Glu	Phe	Val	Cys	Cys	Thr	Asp	Pro
	50					55			

&lt;210&gt; 6878

&lt;211&gt; 83

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (74)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (77)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6878

Thr	Gly	Val	Asp	Ser	Gly	Gly	Ala	Ala	Arg	Arg	Asp	Met	Arg	Leu	Ser
1				5					10					15	

Trp	Phe	Arg	Val	Leu	Thr	Val	Leu	Ser	Ile	Cys	Leu	Ser	Ala	Val	Ala
			20					25					30		

Thr	Ala	Thr	Gly	Ala	Glu	Gly	Lys	Arg	Lys	Leu	Gln	Ile	Gly	Val	Lys
			35				40					45			

Lys	Arg	Val	Asp	His	Cys	Pro	Ile	Lys	Ser	Arg	Lys	Gly	Asp	Val	Leu
		50				55					60				

His	Met	His	Tyr	Thr	Gly	Lys	Leu	Glu	Xaa	Gly	Thr	Xaa	Phe	Asp	Ser
65						70				75					80



## 6093

Ser Leu Pro

<210> 6879

<211> 102

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 6094

<221> SITE  
 <222> (56)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (59)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (62)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (63)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (73)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (96)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6879  
 Gly Arg Asp Pro Val Arg Ala Pro Ala Pro Ser Asn Xaa Gly Gly Pro  
 1 5 10 15  
 Glu Pro Xaa Trp Arg Ser Pro Xaa Pro Leu Ser Ala Ser Leu His Xaa  
 20 25 30  
 Thr Ser Pro His Pro Xaa Gly Leu Trp Thr Thr Thr Xaa Xaa Arg Ala  
 35 40 45  
 Xaa Ala Gly Arg Gly Gly Ala Xaa Gly Pro Xaa Gly Pro Xaa Xaa Gly  
 50 55 60  
 Xaa Lys Ile Cys Gln Phe Lys Leu Xaa Leu Leu Gly Glu Ser Ser Val  
 65 70 75 80  
 Gly Lys Ser Ser Leu Val Leu Arg Phe Phe Lys Gly Gln Phe Tyr Xaa

## 6095

85

90

95

Tyr His Glu Ser Thr Ile  
100

&lt;210&gt; 6880

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6880

Ala	Leu	Glu	Met	Leu	Leu	Ala	Ala	Trp	Gly	Lys	Ser	Ser	Leu	Thr	Ile
1				5					10					15	

Gln	Phe	Val	Glu	Gly	Gln	Phe	Val	Asp	Ser	Tyr	Asp	Pro	Thr	Ile	Glu
			20					25					30		

Asn	Thr	Phe	Thr	Lys	Leu	Ile	Thr	Val	Lys	Trp	Thr	Xaa	Leu	Ser	Cys
		35					40					45			

Xaa	Thr	Cys	Arg	His	Ser	Arg	Ala	Lys	Met	Asn	Ile	Leu	Ser	Phe	Pro
		50				55					60				

Ser Gly His Thr Pro  
65

&lt;210&gt; 6881

&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 6096

<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (20)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6881  
Thr Leu Arg Pro Thr Gln Thr Xaa Asn Xaa Tyr Tyr Cys Ala Arg His  
1 5 10 15  
Thr Asn Gln Xaa His Pro Xaa Tyr Arg Met Lys Arg Trp Ile Asp Pro  
20 25 30  
Trp Gly Xaa Gly Thr Xaa Val Thr Asp Xaa Ser  
35 40

<210> 6882  
<211> 61  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

6097

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6882

Arg Arg Ile Lys Asp Phe Leu Leu Thr Ala Arg Arg Lys Asp Ala Lys  
1 5 10 15

Ser Val Lys Ile Lys Lys Asn Lys Asp Asn Val Lys Phe Lys Val Arg  
20 25 30

Cys Ser Arg Tyr Leu Tyr Thr Leu Val Xaa Thr Asp Lys Glu Lys Ala  
35 40 45

Xaa Lys Leu Lys Gln Ser Leu Pro Pro Arg Phe Ala Gln  
50 55 60

&lt;210&gt; 6883

&lt;211&gt; 103

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 6098

<221> SITE  
 <222> (83)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (91)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (93)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (94)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (100)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 6883  
 Gln Asp Gln Gly Glu Lys Glu Asn Pro Met Arg Glu Leu Arg Ile Arg  
       1                  5                  10                  15  
 Lys Leu Cys Xaa Asn Ile Cys Val Gly Glu Ser Gly Xaa Arg Leu Thr  
                   20                  25                  30  
 Arg Ala Ala Lys Val Xaa Glu Gln Leu Thr Gly Gln Thr Xaa Val Xaa  
           35                  40                  45  
 Ser Lys Ala Arg Tyr Thr Val Arg Ser Phe Gly Ile Arg Arg Asn Glu  
       50                  55                  60  
 Lys Ile Ala Val His Cys Thr Val Leu Gly Ala Lys Ala Glu Glu Ile  
       65                  70                  75                  80  
 Leu Glu Xaa Gly Leu Lys Val Arg Glu Tyr Xaa Leu Xaa Xaa Asn Asn  
                   85                  90                  95  
 Phe Ser Asp Xaa Gly Asn Phe  
           100

&lt;210&gt; 6884

&lt;211&gt; 102

&lt;212&gt; PRT

## 6099

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6884

Phe	Ala	Lys	Met	Thr	Asn	Thr	Lys	Gly	Lys	Arg	Arg	Gly	Thr	Arg	Tyr
1				5				10					15		

Met	Phe	Ser	Arg	Pro	Phe	Xaa	Lys	His	Gly	Val	Val	Pro	Leu	Ala	Thr
			20					25					30		

Tyr	Met	Arg	Ile	Tyr	Lys	Lys	Gly	Asp	Ile	Val	His	Ile	Lys	Gly	Met
			35				40					45			

## 6100

Gly Thr Val Xaa Lys Gly Met Pro His Lys Cys Tyr His Gly Ile Thr  
 50 55 60

Gly Xaa Val Tyr Xaa Val Thr Xaa Xaa Ala Val Gly Ile Val Val Asn  
 65 70 75 80

Lys Gln Val Xaa Gly Lys Ile Leu Ala Lys Arg Ile Asn Val Arg Ile  
 85 90 95

Glu His Ile Xaa His Ser  
 100

&lt;210&gt; 6885

&lt;211&gt; 155

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6885

Xaa Pro Lys Ala Lys Lys Glu Ala Pro Ala Pro Pro Lys Ala Glu Ala  
 1 5 10 15

Lys Ala Lys Ala Leu Lys Ala Lys Lys Ala Val Leu Lys Gly Val His  
 20 25 30

Ser His Lys Lys Lys Lys Ile Arg Thr Ser Pro Thr Phe Arg Arg Pro  
 35 40 45

Lys Thr Leu Arg Leu Arg Arg Gln Pro Lys Tyr Pro Arg Lys Ser Ala  
 50 55 60

Pro Arg Arg Asn Lys Leu Asp His Tyr Ala Ile Ile Lys Phe Pro Leu  
 65 70 75 80

Thr Thr Glu Ser Ala Met Lys Lys Ile Glu Asp Asn Asn Thr Leu Val  
 85 90 95

Phe Ile Val Asp Val Lys Ala Asn Lys His Gln Ile Lys Gln Ala Val  
 100 105 110

Lys Lys Leu Tyr Asp Ile Asp Val Ala Lys Val Asn Thr Leu Ile Arg  
 115 120 125

Pro Asp Gly Glu Lys Lys Ala Tyr Val Arg Leu Ala Pro Asp Tyr Asp



## 6101

130

135

140

Ala Leu Asp Val Ala Asn Lys Ile Gly Ile Ile  
145 150 155

&lt;210&gt; 6886

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6886

Asn Leu Gly Xaa Trp Cys Leu Ser Trp Leu Gly Arg Tyr Ser Gly Arg  
1 5 10 15

Lys Xaa Val Ile Val Lys Xaa Xaa Asp Asp Gly Thr Ser Xaa Arg Pro  
20 25 30

Tyr Ser His Ala Leu  
35

&lt;210&gt; 6887

&lt;211&gt; 143

## 6102

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (136)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (138)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (140)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6887

Met	Ile	Thr	Pro	Phe	Leu	Ile	Arg	Leu	Xaa	Ile	Gly	Lys	Ala	Gly	Thr
1				5					10					15	

Pro	Ala	Gly	Thr	Gly	Pro	Glu	Phe	Pro	Gly	Arg	Pro	Thr	Arg	Pro	Val
			20					25					30		

Ala	Ala	Ala	Glu	Gly	Ala	Ala	Ala	Met	Ser	Ala	His	Leu	Gln	Trp	Met
		35					40					45			

Val	Val	Arg	Asn	Cys	Ser	Ser	Phe	Leu	Ile	Lys	Arg	Asn	Lys	Gln	Thr
	50					55					60				

Tyr	Ser	Thr	Glu	Pro	Asn	Asn	Leu	Lys	Ala	Arg	Asn	Ser	Phe	Arg	Tyr
65					70					75					80

Asn	Gly	Leu	Ile	His	Arg	Lys	Thr	Val	Gly	Trp	Ser	Arg	Gln	Pro	Thr
				85					90					95	

Gln	Ser	Ser	Gly	Gly	Ser	Leu	Thr	Glu	Ser	Gly	Thr	Glu	Pro	Ala	Thr
			100					105					110		

Pro	Met	Cys	Asp	Thr	Ser	Thr	Asp	Val	Arg	Pro	Ser	His	Ser	Thr	Tyr
		115					120					125			

Pro	Lys	His	Thr	Pro	Leu	Pro	Xaa	His	Xaa	Ala	Xaa	Ser	Pro	Gln	
	130						135					140			

## 6103

<210> 6888

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6104

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6888

His	Glu	Arg	Lys	Glu	Gly	Xaa	Arg	Xaa	Xaa	Xaa	Arg	Xaa	Phe	Xaa	His
1				5					10					15	

Gln	Arg	Met	Ile	Thr	Arg	Glu	Tyr	Xaa	Ile	Asn	Ile	His	Asn	Arg	Ile
			20					25					30		

His	Xaa	Val	Gly	Phe	Lys	Xaa	Arg	Ala	Pro	Arg	Ala	Leu	Xaa
		35					40					45	

&lt;210&gt; 6889

&lt;211&gt; 159

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6889

Xaa	Xaa	Thr	Xaa	Thr	Leu	Thr	Lys	Gly	Asn	Lys	Ser	Trp	Ser	Ser	Thr
1				5					10					15	

Ala	Val	Ala	Ala	Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn
			20					25					30		

Ser	Ala	Arg	Gly	Cys	Leu	Gln	Ala	Leu	Arg	Met	Val	Gln	Arg	Leu	Thr
		35					40					45			

Tyr	Arg	Arg	Arg	Leu	Ser	Tyr	Asn	Thr	Ala	Ser	Asn	Lys	Thr	Arg	Leu
						55					60				

**6105**

Ser Arg Thr Pro Gly Asn Arg Ile Val Tyr Leu Tyr Thr Lys Lys Val  
 65 70 75 80

Gly Lys Ala Pro Lys Ser Ala Cys Gly Val Cys Pro Gly Arg Leu Arg  
 85 90 95

Gly Val Arg Ala Val Arg Pro Lys Val Leu Met Arg Leu Ser Lys Thr  
 100 105 110

Lys Lys His Val Ser Arg Ala Tyr Gly Gly Ser Met Cys Ala Lys Cys  
 115 120 125

Val Arg Asp Arg Ile Lys Arg Ala Phe Leu Ile Glu Glu Gln Lys Ile  
 130 135 140

Val Val Lys Val Leu Lys Ala Gln Ala Gln Ser Gln Lys Ala Lys  
 145 150 155

<210> 6890

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6890

Cys Thr Ala Thr Leu Gly Xaa Phe Ala Lys Ala Thr Phe Asp Ala Ile  
 1 5 10 15

Ser Lys Thr Tyr Ser Tyr Leu Thr Pro Asp Leu Trp Lys Glu Thr Val  
 20 25 30

Phe Thr Lys Ser Pro Tyr Gln Glu Phe Thr Asp His Leu Val Xaa Thr  
 35 40 45

His Thr Arg Val Ser Val Gln Arg Thr Gln Ala Pro Ala Val Ala Thr  
 50 55 60

Thr  
 65

## 6106

<210> 6891  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6891  
 Val Xaa Ala Ser Lys Met Thr Lys Lys Arg Arg Asn Asn Gly Arg Ala  
           1                  5                  10                  15  
 Lys Lys Gly Arg Gly His Val Gln Pro Ile Arg Cys Thr Asn Cys Ala  
                   20                  25                  30  
 Arg Cys Val Pro Lys Asp Lys Ala Ile Lys Lys Phe Val Ile Arg Asn  
           35                  40                  45  
 Ile Val Glu Ala Ala Ala Val Arg Asp Ile Ser Glu Ala Ser Val Phe  
           50                  55                  60  
 Asp Ala Tyr Val Leu Pro Lys Leu Tyr Val Lys Leu His Tyr Cys Val  
           65                  70                  75                  80  
 Ser Cys Ala Ile His Ser Lys Val Val Arg Asn Arg Ser Arg Glu Ala  
                   85                  90                  95  
 Arg Lys Asp Arg Thr Pro Pro Pro Arg Phe Arg Pro Ala Gly Ala Ala  
           100                  105                  110  
 Pro Arg Pro Pro Pro Lys Pro Met  
           115                  120

<210> 6892  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (6)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE

## 6107

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6892

Gly	His	His	Gln	Leu	Xaa	Trp	Asn	His	Pro	Arg	Xaa	Tyr	Gly	His	Gly
1				5					10					15	

Xaa	Arg	Ser	Cys	Arg	Val	Cys	Ser	Asn	Arg	His	Gly	Leu	Ile	Arg	Lys
			20					25					30		

Tyr	Gly	Leu	Asn	Met	Cys	Arg	Gln	Cys	Phe	Arg	Gln	Tyr	Ala	Lys	Asp
		35					40					45			

Ile	Gly	Phe	Ile	Lys	Leu	Asp	Xaa	Met	Leu	Phe	Leu	His	Arg	Ile	Ile
	50					55					60				

Arg	Gly	Ile	Tyr	Ser	Met	Lys	Asn	His	Asp	Asn	Ser	Leu	Tyr	Ile	Lys
65						70				75					80

&lt;210&gt; 6893

&lt;211&gt; 85

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6893

Ala	Ser	Glu	Ala	Phe	Ser	Cys	Phe	Lys	Met	Lys	Leu	Asn	Ile	Ser	Phe
1				5					10					15	

Pro	Ala	Thr	Gly	Cys	Gln	Lys	Leu	Ile	Glu	Val	Asp	Asp	Glu	Arg	Lys
			20					25					30		

## 6108

Leu Arg Thr Phe Tyr Glu Lys Arg Met Ala Thr Glu Val Ala Ala Asp  
                   35                                  40                                  45

Ala Leu Gly Glu Glu Trp Lys Gly Tyr Val Val Arg Ile Xaa Gly Gly  
           50                                  55                                  60

Asn Asp Lys Gln Gly Phe Pro Met Lys Gln Gly Val Leu Thr His Gly  
   65                                  70                                  75                                  80

Arg Val Arg Cys Tyr  
                                   85

<210> 6894

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6894

Phe Gly Arg Gly His Arg Thr Gln Lys Glu Ile Glu Gln Glu Ala Ala  
   1                                  5                                  10                                  15

Val Glu Leu Ser Gln Leu Arg Asp Pro Gln His Asp Leu Asp Arg Val  
                                   20                                  25                                  30

Lys Lys Pro Glu Trp Val Ile Leu Ile Gly Val Cys Thr Xaa Ser Trp  
           35                                  40                                  45

Ala Val Tyr Pro Leu Ala Asn Ala Gly Arg Ile Leu Val Val Ile Thr  
           50                                  55                                  60

Ala Leu Ala Met Gly His Thr Tyr Asp Ala Ser Gly Gln Asp Pro Asp  
   65                                  70                                  75                                  80

Trp Val Leu Leu Leu Phe Asn Leu Glu Val Pro His Gly Ile Glu Phe  
                                   85                                  90                                  95

His Gln

<210> 6895

<211> 40

<212> PRT



## 6109

&lt;213&gt; Homo sapiens

&lt;400&gt; 6895

```

Ser Ser Gly Leu Ser Ser Ala Ser Leu Ser Val Lys Ala Ile Lys Glu
 1             5             10             15

Ala Ile Asp Tyr Leu Thr Val Glu Gly His Ile Tyr Pro Thr Val Asp
          20             25             30

Arg Glu His Phe Lys Ser Ala Asp
      35             40

```

&lt;210&gt; 6896

&lt;211&gt; 104

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6896

```

Ala Gln Ala Ser Arg Ser Arg Trp Glu Leu Pro Pro Gly Ala Val Thr
 1             5             10             15

Met Thr Gly Glu Leu Glu Val Lys Asn Met Asp Met Lys Pro Gly Ser
          20             25             30

Thr Leu Lys Ile Thr Gly Xaa Ile Ala Asp Gly Thr Asp Gly Phe Val
      35             40             45

Ile Asn Leu Gly Gln Gly Thr Asp Lys Leu Asn Leu His Phe Asn Pro
      50             55             60

Arg Phe Ser Glu Ser Thr Ile Val Cys Asn Ser Leu Asp Gly Ser Asn
      65             70             75             80

Trp Gly Gln Glu Gln Arg Glu Asp His Leu Cys Phe Ser Pro Arg Ser
          85             90             95

Glu Val Lys Phe Thr Val Thr Phe
      100

```

&lt;210&gt; 6897

&lt;211&gt; 91

&lt;212&gt; PRT

## 6110

<213> Homo sapiens

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6897

Arg	Gln	Phe	Met	Gly	Met	Ile	Ile	Asp	Val	Phe	Ser	Arg	Tyr	Ser	Gly
1				5				10						15	

Ser	Glu	Gly	Ser	Thr	Gln	Thr	Leu	Thr	Lys	Gly	Glu	Leu	Lys	Val	Leu
			20				25						30		

Met	Glu	Lys	Glu	Leu	Pro	Gly	Phe	Leu	Gln	Ser	Gly	Lys	Asp	Lys	Asp
		35					40					45			

Ala	Val	Asp	Lys	Leu	Leu	Lys	Asp	Leu	Asp	Ala	Asn	Gly	Asp	Ala	Gln
	50					55					60				

Val	Asp	Phe	Ser	Glu	Phe	Ile	Val	Phe	Val	Ala	Ala	Ile	Thr	Ser	Ala
65					70					75					80

Cys	His	Lys	Tyr	Phe	Xaa	Lys	Ala	Gly	Leu	Lys
				85					90	

<210> 6898

<211> 158

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

## 6111

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6112

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (146)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (147)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6898

Gly	Thr	Ser	Gly	Asn	Phe	Lys	Gly	Met	Lys	Ile	Lys	Pro	Gly	Ser	Met
1				5				10					15		

Gly	Lys	Pro	Ser	Pro	Ala	Phe	Asp	Val	Lys	Xaa	Val	Asp	Val	Asn	Gly
			20				25						30		

Asn	Val	Leu	Pro	Pro	Gly	Gln	Glu	Gly	Asp	Ile	Gly	Ile	Gln	Val	Leu
		35					40					45			

Pro	Asn	Arg	Pro	Phe	Gly	Leu	Phe	Thr	His	Tyr	Val	Asp	Asn	Pro	Ser
	50					55					60				

Lys	Thr	Ala	Ser	Thr	Leu	Arg	Gly	Asn	Ser	Ile	Ser	Leu	Gly	Thr	Glu
65					70					75					80

Asp	Ile	Trp	Ile	Lys	Met	Gly	Ile	Ser	Xaa	Xaa	Phe	Ala	Xaa	Ala	Asp
				85					90					95	

Val	Gly	Xaa	Tyr	Xaa	Leu	Val	Xaa	Asp	Leu	Ala	Pro	Leu	Gly	Gly	Lys
		100						105					110		

Ser	Pro	Ile	Xaa	Thr	Pro	Xaa	Phe	Arg	Val	Pro	Phe	Phe	Lys	Xaa	Pro
		115					120					125			

Thr	Pro	Ser	Arg	Gly	Xaa	Val	Lys	Val	Xaa	Gly	Phe	Lys	Thr	Xaa	Phe
	130					135					140				

Xaa	Xaa	Xaa	Phe	Arg	Ala	Pro	Phe	Lys	Gly	Phe	Arg	Gly	Phe
145					150					155			

&lt;210&gt; 6899

&lt;211&gt; 109

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

## 6113

<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (67)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (69)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (83)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (85)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (86)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (96)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (98)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (102)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (104)

## 6114

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6899

Val	Lys	Phe	Xaa	Val	Ala	Glu	Gly	Lys	Gln	Xaa	Glu	Ile	Gln	His	Lys
1				5					10					15	
Gly	Gln	Ala	Glu	Lys	Lys	Glu	Leu	Gln	His	Lys	Ile	Asp	Glu	Met	Glu
			20					25					30		
Glu	Lys	Glu	Gln	Glu	Leu	Gln	Ala	Lys	Ile	Glu	Ala	Leu	Gln	Ala	Asp
			35				40					45			
Asn	Asp	Phe	Thr	Asn	Glu	Arg	Leu	Thr	Ala	Leu	Gln	Glu	Lys	Leu	Thr
	50					55					60				
Val	Glu	Xaa	His	Xaa	Thr	Lys	Ala	Val	Glu	Glu	Thr	Lys	Leu	Ser	Lys
65					70					75					80
Glu	Asn	Xaa	Thr	Xaa	Xaa	Lys	Glu	Ser	Asp	Phe	Ser	Asp	Thr	Leu	Xaa
				85					90					95	
Pro	Xaa	Lys	Glu	Asn	Xaa	Lys	Xaa	Arg	Ala	Val	Ala	Leu			
			100					105							

<210> 6900

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6115

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (78)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6900

Tyr	Phe	Xaa	Xaa	Trp	Ser	Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro	Gly
1				5					10					15	

Ser	Ile	Xaa	Arg	Val	Leu	Glu	Met	Thr	Pro	Gln	Gln	Gly	Asp	Val	Tyr
			20					25					30		

Xaa	Xaa	Gln	Val	Glu	His	Thr	Ser	Leu	Asp	Ser	Pro	Val	Thr	Val	Glu
		35					40					45			

Trp	Lys	Ala	Gln	Ser	Asp	Ser	Ala	Arg	Ser	Lys	Thr	Leu	Thr	Gly	Ala
	50					55					60				

Gly	Gly	Phe	Val	Leu	Gly	Leu	Ile	Ile	Cys	Gly	Val	Gly	Xaa	Phe	Met
65					70					75					80

His	Arg	Arg	Asn	Lys	Lys	Val	Gln	Arg	Gly	Ser	Ala
				85					90		

&lt;210&gt; 6901

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6901

Ile	Arg	Xaa	Arg	Asn	Arg	Gly	Cys	Cys	Phe	Asp	Ser	Arg	Ile	Pro	Gly
1				5					10					15	

Xaa	Pro	Trp	Cys	Phe	Lys	Pro	Leu	Gln	Glu	Ala	Glu	Cys	Thr	Phe
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 6116

20

25

30

&lt;210&gt; 6902

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6902

Gly Thr Ala Thr Gln Gly Leu Ser Pro Val His Thr Pro Gly Asp Gly  
1 5 10 15

Arg Leu His Lys Ala Val Ser Val Gly Pro Arg Val His Ile Ile Glu  
20 25 30

Glu Leu Gln Ile Phe Ser Ser Gly Gln Pro Val Ala Glu Ser Ala Pro  
35 40 45

Gly Thr Pro Thr Gly Gly Leu  
50 55

&lt;210&gt; 6903

&lt;211&gt; 134

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (111)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (117)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE



## 6117

&lt;222&gt; (121)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (127)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (130)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6903

Gly	Tyr	Gln	Pro	Glu	Asn	Pro	Tyr	Pro	Ala	Gln	Pro	Thr	Val	Val	Pro
1				5				10					15		

Thr	Val	Tyr	Xaa	Val	His	Pro	Ala	Gln	Tyr	Tyr	Pro	Ser	Pro	Val	Pro
			20					25					30		

Gln	Tyr	Xaa	Pro	Arg	Val	Leu	Thr	Gln	Ala	Ser	Asn	Pro	Val	Val	Cys
		35					40				45				

Thr	Gln	Ala	Lys	Ser	Pro	Ser	Gly	Thr	Val	Cys	Thr	Ser	Lys	Thr	Lys
	50					55					60				

Lys	Ala	Leu	Cys	Ile	Thr	Leu	Thr	Trp	Gly	Leu	Pro	Pro	Gly	Asn	Cys
65					70					75				80	

Ala	Gly	Arg	Trp	Pro	Thr	Leu	Glu	Ile	His	Gly	Gln	Gln	Met	Leu	Gln
				85					90					95	

Leu	Trp	Asp	Arg	Met	Arg	Ile	Leu	Lys	Phe	Cys	Ile	Asn	Pro	Xaa	Thr
		100						105					110		

Gly	Val	Ile	Ala	Xaa	Gln	Leu	Pro	Xaa	Gly	Glu	Glu	Lys	Asn	Xaa	Cys
		115					120					125			

Ser	Xaa	Phe	Gln	Thr	Ser
		130			

&lt;210&gt; 6904

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

## 6118

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6904

Pro	Gln	Xaa	Ser	Leu	Xaa	Gly	Thr	Pro	Thr	Glu	Glu	Thr	Trp	Pro	Gly
1				5					10					15	

Val	Thr	Arg	Ile	Ser	Glu	Xaa	Arg	Thr	Tyr	Ser	Phe	Pro	Cys	Tyr	Leu
			20					25					30		

Pro	Gln	Pro	Ala	His	Gln	Pro	Arg	Arg	Pro	Gly	Xaa	Ile	Arg	Met	Ala
		35					40					45			

Ser	Thr	Ser
	50	

<210> 6905

<211> 89

<212> PRT

<213> Homo sapiens

<400> 6905

His	Gly	Asn	Val	Pro	Leu	His	Tyr	Ala	Cys	Phe	Trp	Gly	Gln	Asp	Gln
1				5					10				15		

Val	Ala	Glu	Asp	Leu	Val	Ala	Asn	Gly	Ala	Leu	Val	Ser	Ile	Cys	Asn
		20						25					30		

Lys	Tyr	Gly	Glu	Met	Pro	Val	Asp	Lys	Ala	Lys	Ala	Pro	Leu	Arg	Glu
		35					40					45			

Leu	Leu	Arg	Glu	Arg	Ala	Glu	Lys	Met	Gly	Gln	Asn	Leu	Asn	Arg	Ile
	50					55					60				

Pro	Tyr	Lys	Asp	Thr	Phe	Trp	Lys	Gly	Thr	Thr	Arg	Thr	Arg	Pro	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 6119

65

70

75

80

Glu Ser Pro Leu Trp Glu Glu Gly Leu  
85

&lt;210&gt; 6906

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (40)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6120

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6906

Cys	Ser	Xaa	Thr	Ile	Gly	Glu	Lys	Xaa	Xaa	Gln	Lys	Glu	Pro	Xaa	Gly
1				5					10					15	

Xaa	Asp	Xaa	Ser	Val	Pro	Glu	Asn	Val	Leu	Ser	Xaa	Asp	Asp	Leu	Thr
			20					25					30		

Ala	Asp	Ala	Leu	Ala	Asn	Leu	Xaa	Xaa	Pro	Gln	Ile	Lys	Lys	Val	Arg
		35					40					45			

Leu	Leu	Ile	Asp	Glu	Ala	Ile	Leu	Lys	Cys	Asp	Ala	Glu	Gly	Xaa	Lys
	50					55					60				

Leu	Glu	Ala	Glu	Arg	Phe	Glu	Asn	Leu	Arg	Glu	Ile	Gly	Asn	Leu	Leu
65					70					75					80

His	Pro	Ser	Val	Pro	Ile	Ser	Asn	Asp	Glu	Val	Gly	Gly	Cys	Ala	Ala
				85					90					95	

Ala	Gly	Gly	Cys	Leu	Arg	Ser	Leu	Leu	Ser	Leu	Gln	Gly	Arg	Gly
			100					105					110	

&lt;210&gt; 6907

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 6121

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6907

Cys Val Ala Gly Xaa Asp Glu Gln Ser Thr Gln Met Ala Ala Arg Xaa  
 1 5 10 15

Glu Asp Asp Lys Val Thr Glu Ala Ser Ser Asn Arg Xaa Ala Ala Ile  
 20 25 30

Lys Ile Xaa Thr Lys Ser  
 35

&lt;210&gt; 6908

&lt;211&gt; 137

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6908

Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg Arg  
 1 5 10 15

Ser Pro Ala Lys Thr Ile Ala Pro Gln Asn Ala Pro Arg Asp Glu Ser  
 20 25 30

Arg Gly Arg Ser Ser Phe Tyr Pro Asp Gly Gly Asp Gln Glu Thr Ala  
 35 40 45

Lys Thr Gly Lys Phe Leu Lys Arg Phe Thr Asp Glu Glu Ser Arg Val  
 50 55 60

Phe Leu Leu Asp Arg Gly Asn Thr Arg Asp Lys Glu Ala Ser Lys Glu  
 65 70 75 80

Lys Gly Ser Glu Lys Gly Arg Ala Glu Gly Glu Trp Glu Asp Gln Glu  
 85 90 95

Ala Leu Asp Tyr Phe Ser Asp Lys Glu Ser Gly Lys Gln Lys Phe Asn  
 100 105 110

Asp Ser Glu Gly Asp Asp Thr Glu Glu Thr Glu Asp Tyr Arg Gln Phe  
 115 120 125

## 6122

Arg Lys Ser Ser Pro Arg Arg Ser Gly  
 130 135

<210> 6909

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6909

Pro Val Ser Gly Val Pro Arg Arg Xaa Xaa Arg Ile Ala Gly Lys Arg  
 1 5 10 15

Val Cys Xaa Met Glu Ser Gly Xaa Ala Gly Cys Phe Ser Pro Lys Ile  
 20 25 30

Xaa

<210> 6910

<211> 112

<212> PRT

<213> Homo sapiens

## 6123

<220>  
 <221> SITE  
 <222> (1)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (29)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (107)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6910  
 Xaa Thr Xaa Xaa Ser Cys Arg Tyr Leu Gly Gln Glu Xaa Pro Gly Arg  
 1 5 10 15  
 Pro Thr Arg Pro Met Ala Glu Tyr Asp Leu Thr Thr Xaa Ile Ala His  
 20 25 30  
 Phe Leu Asp Arg His Leu Val Phe Pro Leu Leu Glu Phe Leu Ser Val  
 35 40 45  
 Lys Glu Ile Tyr Asn Glu Lys Glu Leu Leu Gln Gly Lys Leu Asp Leu  
 50 55 60  
 Leu Ser Asp Thr Asn Met Val Asp Phe Ala Met Asp Val Tyr Lys Asn  
 65 70 75 80  
 Leu Tyr Ser Asp Asp Ile Pro His Ala Leu Arg Glu Lys Arg Thr Thr  
 85 90 95  
 Val Val Ala Gln Leu Lys Gln Ala Ser Gly Xaa Asn Gln Asn Gln Leu

**6124**

100

105

110

&lt;210&gt; 6911

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (102)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (109)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (111)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (114)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6911

Asn	Tyr	Glu	Thr	Ile	Glu	Gln	Lys	Lys	Ala	Tyr	Glu	Ile	Ala	Gly	Leu
1				5					10					15	

Leu	Gly	Asp	Ile	Gly	Gly	Gln	Met	Gly	Leu	Phe	Ile	Gly	Ala	Ser	Ile
			20					25					30		

Leu	Thr	Val	Leu	Glu	Leu	Phe	Asp	Tyr	Ala	Tyr	Glu	Val	Ile	Lys	His
		35					40					45			

Lys	Leu	Cys	Arg	Arg	Gly	Lys	Cys	Gln	Lys	Glu	Ala	Lys	Arg	Ser	Ser
	50					55					60				

Ala	Asp	Lys	Gly	Val	Ala	Leu	Thr	Trp	Thr	Thr	Ser	Lys	Asp	Thr	Thr
65					70					75					80

Arg	Cys	Glu	Asn	Leu	Arg	Gly	His	Pro	Ala	Gly	Met	Thr	Tyr	Ala	Trp
			85						90					95	



## 6125

Gln His Ser Thr Leu Xaa Ile Arg Ala Glu Gly Leu Xaa Arg Xaa Leu  
                   100                  105                  110

Leu Xaa

<210> 6912  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (9)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (26)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (48)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (53)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (54)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6912  
 Tyr Tyr Asn Gly Ala Ala Val Ile Xaa His Glu Arg Val Gln Lys Thr  
       1                  5                  10                  15

## 6126

Phe Pro His Pro Ile Asp Lys Trp Ala Xaa Ala Asp Ala Gln Ser Ala  
                   20                  25                  30  
 Ile Glu Lys Gln Lys Arg Arg Asn Pro Leu Leu Leu Pro Val Asp Xaa  
                   35                  40                  45  
 Ile His Pro Ser Xaa Xaa Glu Leu Leu Gly Tyr Lys Met Arg Leu Pro  
                   50                  55                  60  
 Cys Ile Pro Ile Xaa Cys Gly Cys Thr Thr Xaa Tyr Leu Ser Leu Ile  
                   65                  70                  75                  80

Phe

<210> 6913

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6913

Xaa Ser Gly Tyr Tyr Pro Gly Gly Tyr Xaa Gly Ala Pro Gly Trp Pro  
           1                  5                  10                  15

## 6127

Ala Phe Pro Arg His Pro Leu Asp Pro Leu Phe Gly Xaa Phe Ala Ala  
20 25 30  
Val Ala Gly Gln Asp Gly Pro Ile Asp Ala Asp Glu Phe Leu Xaa Cys  
35 40 45  
Xaa Thr  
50

<210> 6914

<211> 125

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6128

<220>  
 <221> SITE  
 <222> (111)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (117)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6914  
 Arg Gly Cys Leu Gly Leu Gly Cys Pro Leu His Leu His Val Phe Ala  
 1 5 10 15  
 Xaa Val Ser Ala Met Leu Pro Leu Leu Arg Cys Val Pro Arg Val Leu  
 20 25 30  
 Gly Ser Ser Val Ala Gly Leu Arg Ala Ala Ala Pro Ala Ser Pro Phe  
 35 40 45  
 Arg Gln Leu Leu Gln Pro Ala Pro Arg Leu Cys Thr Arg Pro Phe Gly  
 50 55 60  
 Leu Leu Ser Val Arg Ala Gly Ser Glu Arg Xaa Pro Gly Leu Xaa Arg  
 65 70 75 80  
 Xaa Arg Gly Pro Cys Ala Xaa Gly Cys Gly Cys Gly Ser Leu Xaa Thr  
 85 90 95  
 Xaa Gly Asp Lys Ala Phe Val Asp Tyr Leu Ser Asp Glu Ile Xaa Glu  
 100 105 110  
 Glu Arg Lys Ile Xaa Lys His Lys Thr Leu Pro Lys Met  
 115 120 125

<210> 6915  
 <211> 124  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (115)

## 6129

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6915

Glu Lys Leu Ile Xaa Pro Arg Thr Lys Ala Ile Ile Pro Val Asp Ile

1

5

10

15

Gly Gly Phe Pro Ala Asp Tyr Ser Glu Ile Leu Asp Leu Val Glu Arg

20

25

30

Lys Lys Asp Ile Phe Asn Pro Lys Lys Gly Thr Tyr Gln Glu Lys Leu

35

40

45

Gly Arg Ile Leu Val Leu Ala Asp Ser Ala His Ser Phe Gly Ser Ser

50

55

60

Tyr Lys Gly Lys Lys Ile Gly Ser Val Ala Asp Val Thr Ser Phe Ser

65

70

75

80

Phe His Ala Ile Lys Asn Leu Thr Thr Ala Glu Gly Gly Ala Leu Thr

85

90

95

Trp Asn Leu Pro Asn Asn Phe Asp Asn Glu Gln Ile Tyr Lys Glu Leu

100

105

110

Met Leu Xaa Ala Leu His Gly Lys Ile Arg Met His

115

120

<210> 6916

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

## 6130

&lt;222&gt; (112)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (121)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6916

Met	Phe	His	Phe	Ser	Lys	Leu	Asp	Leu	Glu	Thr	Leu	Ile	Ile	Phe	Leu
1				5					10					15	

Ile	Trp	Lys	Arg	Gln	Pro	Lys	Lys	Cys	Thr	Ser	Ala	Tyr	Pro	Leu	Gln
			20					25					30		

Pro	Glu	Asp	Val	Asn	Leu	Arg	Val	Ile	Ser	Glu	Tyr	Gln	Lys	Leu	Phe
		35					40					45			

Pro	Asp	Ile	Pro	Ile	Gly	Tyr	Ser	Gly	His	Glu	Thr	Gly	Ile	Ala	Ile
	50					55					60				

Ser	Val	Ala	Ala	Val	Ala	Leu	Gly	Ala	Lys	Val	Leu	Glu	Arg	His	Ile
65					70					75					80

Thr	Leu	Xaa	Lys	Thr	Trp	Xaa	Gly	Ser	Asp	His	Ser	Asp	Ser	Leu	Glu
				85					90					95	

Pro	Gly	Glu	Leu	Gly	Glu	Ala	Gly	Ala	Val	Ser	Ala	Ser	Cys	Xaa	Xaa
			100					105					110		

Val	Pro	Trp	Ala	Pro	Gln	Ala	Lys	Xaa	Leu	Thr
			115				120			

&lt;210&gt; 6917

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 6131

<221> SITE  
<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (53)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6917  
Gly Ser Leu Gln Ser Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr  
1 5 10 15  
Ser Leu Trp Tyr Thr Phe Gly Gln Gly Thr Asn Leu Glu Ile Lys Arg  
20 25 30  
Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Lys Thr  
35 40 45  
Ile Xaa Xaa Xaa Xaa Xaa  
50

<210> 6918  
<211> 102  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (73)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 6132

&lt;222&gt; (80)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (89)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (95)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (101)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6918

Ser	Ser	Asp	Ile	Met	Glu	Ser	Gly	Lys	Thr	Ala	Ser	Pro	Lys	Ser	Met
1				5					10					15	

Pro	Lys	Asp	Ala	Gln	Xaa	Met	Ala	Gln	Ile	Leu	Lys	Asp	Met	Gly	Ile
			20					25					30		

Thr	Glu	Tyr	Glu	Pro	Arg	Val	Ile	Asn	Gln	Xaa	Leu	Glu	Phe	Ala	Phe
		35					40					45			

Arg	Tyr	Val	Thr	Thr	Ile	Leu	Asp	Asp	Ala	Lys	Ile	Tyr	Ser	Ser	His
		50				55					60				

Ala	Lys	Lys	Thr	Ser	Val	Asp	Ala	Xaa	Tyr	Val	Arg	Trp	His	Pro	Xaa
65					70					75					80

Pro	Pro	Asp	His	Leu	Leu	Leu	Ser	Xaa	Pro	Lys	Ile	Phe	Leu	Xaa	Leu
				85					90					95	

Gln	Ala	Lys	Ser	Xaa	Leu
					100

&lt;210&gt; 6919

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (58)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids



## 6133

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6919

Val	Met	Ser	His	Arg	Lys	Phe	Ser	Ala	Pro	Arg	His	Gly	Ser	Leu	Gly
1				5					10					15	

Phe	Leu	Pro	Arg	Lys	Arg	Ser	Ser	Arg	His	Arg	Gly	Lys	Val	Lys	Ser
			20					25					30		

Phe	Pro	Lys	Asp	Asp	Pro	Ser	Lys	Pro	Val	His	Leu	Thr	Ala	Phe	Leu
		35					40					45			

Gly	Tyr	Lys	Ala	Gly	Met	Thr	His	Ile	Xaa	Arg	Glu	Phe	Xaa	Xaa	Ala
	50					55					60				

Gly	Ser	Lys	Val	Asn	Lys	Arg	Val	Val
65					70			

&lt;210&gt; 6920

&lt;211&gt; 117

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 6134

&lt;222&gt; (109)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (111)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (113)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (114)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (116)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6920

Ser	Leu	Gln	Arg	Pro	Thr	Xaa	Asn	Xaa	Xaa	Leu	Arg	Thr	Ile	Val	Lys
1				5					10					15	

Ala	Gly	Thr	Pro	Ala	Gly	Thr	Gly	Pro	Glu	Phe	Pro	Gly	Arg	Pro	Thr
			20					25					30		

Arg	Pro	Trp	Thr	Ala	Asp	Glu	Gly	Val	Phe	Asp	Asn	Phe	Val	Leu	Lys
		35					40					45			

Ile	Arg	Asp	Thr	Lys	Lys	Gln	Ser	Glu	Pro	Leu	Glu	Ile	Thr	Leu	Leu
	50					55					60				

Ala	Pro	Glu	Arg	Thr	Arg	Asp	Ile	Thr	Gly	Leu	Arg	Glu	Ala	Thr	Glu
65					70					75					80

Tyr	Glu	Ile	Glu	Leu	Tyr	Gly	Ile	Ser	Lys	Gly	Arg	Arg	Ser	Gln	Thr
				85					90					95	

Val	Cys	Ser	Leu	Leu	Phe	Ile	Tyr	Ser	Ile	Cys	Cys	Xaa	Tyr	Xaa	Thr
			100					105					110		

Xaa	Xaa	Phe	Xaa	Ile
				115

&lt;210&gt; 6921

## 6135

<211> 131  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (71)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (75)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (88)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (90)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 6136

&lt;222&gt; (99)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (102)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (117)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (125)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (131)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6921

Xaa	Ser	Gly	Leu	Xaa	Ile	Gly	Xaa	Ala	Gly	Thr	Pro	Ala	Gly	Thr	Gly
1				5					10					15	

Pro	Glu	Phe	Pro	Gly	Arg	Xaa	Thr	Arg	Pro	Arg	Thr	Arg	Gly	Pro	Ser
			20					25					30		

Leu	Gly	Arg	His	Pro	Gly	Ala	His	Gln	Gly	Asn	Leu	Ala	Phe	Gly	Leu
		35					40					45			

His	Ser	Asn	Xaa	Ile	Ala	Ser	Pro	Gly	Ser	Pro	Ser	Leu	Gly	Arg	His
	50					55					60				

Leu	Gly	Gly	Thr	Gly	Ser	Xaa	Val	Pro	Gly	Xaa	Pro	Cys	Leu	Asp	Arg
65					70					75				80	

His	Val	Ala	Tyr	Gly	Gly	Tyr	Xaa	Thr	Xaa	Glu	Asp	Arg	Arg	Pro	Thr
				85					90					95	

Leu	Ser	Xaa	Lys	Ser	Xaa	Ala	Tyr	Gly	Tyr	Gln	Ala	Pro	Ser	Thr	Pro
			100					105					110		

Ser	Leu	Pro	Val	Xaa	Pro	Ala	Tyr	Tyr	Pro	Gly	Leu	Xaa	Ser	Pro	Asp
		115					120					125			

Thr	Tyr	Xaa
		130

## 6137

&lt;210&gt; 6922

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6922

Val	Glu	Ala	Thr	Cys	Ala	Cys	Leu	Leu	Ala	Gln	Gly	Glu	Glu	Ala	Glu
1				5					10					15	

Lys	Glu	His	Cys	Ser	Lys	Cys	Leu	Ala	Glu	Gln	Met	Ile	Leu	Glu	Glu
			20				25						30		

Phe	Gly	Arg	Cys	Leu	Ser	Gln	Ile	Leu	His	Thr	Glu	Phe	Lys	Ser	Lys
		35					40					45			

Gly	Leu	Lys	Met	Glu
	50			

&lt;210&gt; 6923

&lt;211&gt; 120

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6923

Ile	Val	Thr	Val	Gly	Gly	Glu	Glu	Arg	Val	Ser	Arg	Lys	Pro	Thr	Ala
1				5					10					15	

Ala	Met	Arg	Cys	Met	Cys	Pro	Leu	Tyr	Asp	Pro	Asn	Arg	Gln	Leu	Trp
			20					25					30		

Xaa	Glu	Leu	Ala	Pro	Leu	Ser	Met	Pro	Arg	Ile	Asn	His	Gly	Val	Leu
		35					40					45			

Ser	Ala	Glu	Gly	Phe	Leu	Phe	Val	Phe	Gly	Gly	Gln	Asp	Glu	Asn	Lys
	50					55					60				

Gln	Thr	Leu	Ser	Ser	Gly	Glu	Lys	Tyr	Asp	Pro	Asp	Ala	Asn	Thr	Trp
65					70					75					80

Thr	Ala	Leu	Pro	Pro	Met	Asn	Glu	Ala	Arg	His	Asn	Phe	Gly	Ile	Val
				85					90					95	

**6138**

Glu Ile Asp Gly Met Leu Tyr Ile Leu Gly Gly Glu Asp Gly Glu Lys  
                   100                                  105                                  110

Glu Leu Ile Ser Met Glu Cys Tyr  
                   115                                  120

<210> 6924

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6924

Ser Arg Ser Pro Glu Leu Arg Thr Ala Cys Leu Gln Pro Ser Ser Ile  
       1                                  5                                  10                                  15

Glu Ile Leu Glu Tyr Ser Ser Asp Ser Glu Lys Glu Asp Asp Leu Glu  
                   20                                  25                                  30

Asn Val Leu Leu Ile Xaa Ser Glu Pro Pro His  
                   35                                  40

<210> 6925

<211> 126

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6925

## 6139

Pro Thr Ser Asp Pro Pro Leu Gly Ser Ser Pro Leu Gly Arg Arg Phe  
 1 5 10 15  
 Arg Val Leu Ser Ser Leu Arg Arg Ser Pro Met Phe Glu Glu Lys Ala  
 20 25 30  
 Ser Ser Pro Ser Gly Lys Met Gly Gly Glu Glu Lys Pro Ile Gly Ala  
 35 40 45  
 Gly Glu Glu Lys Gln Lys Glu Gly Gly Lys Lys Lys Asn Lys Glu Gly  
 50 55 60  
 Ser Gly Asp Gly Gly Arg Ala Glu Leu Asn Pro Trp Pro Glu Tyr Ile  
 65 70 75 80  
 Tyr Thr Arg Leu Glu Met Tyr Asn Ile Leu Lys Ala Glu His Asp Ser  
 85 90 95  
 Ile Leu Ala Glu Lys Lys Lys Lys Arg Ala Xaa Ala Leu Glu Asp Pro  
 100 105 110  
 Lys Leu Thr Tyr Ala Xaa Met Arg Xaa His Lys Phe Phe Tyr  
 115 120 125

&lt;210&gt; 6926

&lt;211&gt; 84

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6926

Val Pro Val Xaa Asn Ser Arg Val Asp Pro Arg Val Arg Ile Pro Ser  
 1 5 10 15  
 Arg Thr Val Asn Arg Lys Ser Thr Asp Ser Pro Val Glu Cys Met Gly  
 20 25 30  
 Gln Glu Lys Gly Glu Phe Arg Glu Ile Phe Tyr Ile Ile Gly Ala Val  
 35 40 45  
 Val Phe Val Val Ile Ile Leu Val Ile Ile Leu Ala Ile Ser Leu His  
 50 55 60  
 Lys Cys Arg Lys Ala Gly Val Gly Gln Ser Trp Lys Glu Asn Ser Pro  
 65 70 75 80

## 6140

Leu Asn Val Ser

<210> 6927

<211> 37

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6927

Val Xaa Ser Glu Tyr Pro Ser Ile Lys Leu Val Val Glu Trp Gln Leu  
1 5 10 15

Gln Asp Asp Lys Asn Gln Ser Leu Phe Cys Trp Glu Ile Pro Val Gln  
20 25 30

Ile Val Ser His Leu  
35

<210> 6928

<211> 49

<212> PRT

<213> Homo sapiens

<400> 6928

Ala Ser Ser Ser Gly Gly Pro Leu Val Thr Val Ser Thr Pro Leu His  
1 5 10 15

Gln Val Ser Pro Thr Gly Leu Glu Pro Ser His Ser Leu Leu Ser Thr  
20 25 30

Glu Ala Lys Leu Val Ser Ala Ala Gly Gly Pro Leu Pro Leu Ser Ala  
35 40 45

Pro

<210> 6929

<211> 86

<212> PRT



## 6141

&lt;213&gt; Homo sapiens

&lt;400&gt; 6929

Asp Leu Ser Lys His Ile Lys Thr His Gln Asn Lys Lys Gly Gly Pro  
 1 5 10 15

Gly Val Ala Leu Ser Val Gly Thr Leu Pro Leu Asp Ser Gly Ala Gly  
 20 25 30

Ser Glu Gly Ser Gly Thr Ala Thr Pro Ser Ala Leu Ile Thr Thr Asn  
 35 40 45

Met Val Ala Met Glu Ala Ile Cys Pro Glu Gly Ile Ala Arg Leu Ala  
 50 55 60

Asn Ser Gly Ile Asn Val Met Gln Val Ala Asp Leu Gln Ser Ile Asn  
 65 70 75 80

Ile Ser Gly Asn Gly Phe  
 85

&lt;210&gt; 6930

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6930

Thr Ser Thr Ser Gln Glu Pro Arg Trp Asp Gln Ser Thr Xaa Pro Gly  
 1 5 10 15

Arg Ala Arg His Phe Phe Thr Val Thr Asp Pro Xaa Asn Leu Leu Leu  
 20 25 30

Ser Gly Xaa Thr Ala Gly Ser Phe Leu Gly Thr Ser Cys Arg Thr Thr

## 6142

35

40

45

Gly Asp His Pro Ser Ile  
50

&lt;210&gt; 6931

&lt;211&gt; 93

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6931

His	His	Ala	Asp	Gln	Thr	Leu	Leu	Thr	Cys	Arg	His	Gln	Cys	Pro	Arg
1				5				10						15	

Val	His	His	Leu	Ser	Ala	His	Arg	Pro	Ser	Ser	Cys	Trp	Xaa	Leu	Ser
			20					25					30		

Ala	Ala	Tyr	Ser	Gly	Trp	Gly	Asn	Thr	Leu	Ser	Phe	Gly	Ala	Asp	Tyr
		35				40						45			

Pro	Asp	Glu	Leu	Lys	Cys	Leu	Asp	Ala	Pro	Val	Leu	Thr	Gln	Ala	Glu
	50					55					60				

Cys	Lys	Ala	Ser	Tyr	Pro	Gly	Lys	Asp	Tyr	Gln	Gln	His	Val	Leu	Cys
65					70					75					80

Gly	Ala	Ser	Leu	Arg	Gly	Gly	Lys	Asp	Ser	Leu	Pro	Ala
				85					90			

&lt;210&gt; 6932

&lt;211&gt; 111

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (71)

## 6143

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6932

Asn	Ala	Ser	Val	Arg	Leu	Asp	Asn	Ser	Ser	Ser	Gly	Ala	Ser	Val	Val
1					5				10					15	

Ala	Ile	Asp	Asn	Lys	Ile	Glu	Gln	Ala	Met	Asp	Leu	Val	Lys	Ser	His
			20					25					30		

Leu	Met	Tyr	Ala	Val	Arg	Glu	Glu	Val	Glu	Val	Leu	Lys	Glu	Gln	Ile
		35					40					45			

Lys	Glu	Leu	Ile	Glu	Lys	Asn	Ser	Gln	Leu	Glu	Gln	Glu	Asn	Asn	Leu
	50					55					60				

Xaa	Lys	Thr	Leu	Ala	Ser	Xaa	Glu	Gln	Leu	Ala	Gln	Phe	Xaa	Ala	Gln
65					70					75					80

Leu	Gln	Thr	Gly	Ser	Pro	Pro	Ala	Thr	Thr	Gln	Ser	Gln	Gly	Thr	Thr
				85					90					95	

Gln	Xaa	Pro	Ala	Ser	Gln	Tyr	Xaa	Arg	Ala	Xaa	Asp	Gln	Pro	His	
		100						105					110		

<210> 6933

<211> 162

<212> PRT

<213> Homo sapiens

## 6144

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (157)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6933

Glu	Asn	Thr	Asp	Tyr	Val	Asn	Ala	Ser	Phe	Ile	Asp	Gly	Tyr	Arg	Gln
1					5				10					15	

Lys	Asp	Ser	Tyr	Ile	Ala	Ser	Gln	Gly	Pro	Leu	Leu	His	Thr	Ile	Glu
			20					25					30		

Asp	Phe	Trp	Arg	Met	Ile	Trp	Glu	Trp	Lys	Ser	Cys	Ser	Ile	Val	Met
		35					40					45			

Leu	Thr	Glu	Leu	Glu	Glu	Arg	Gly	Gln	Glu	Lys	Cys	Ala	Gln	Tyr	Trp
	50					55					60				

Pro	Ser	Asp	Gly	Leu	Val	Ser	Tyr	Gly	Asp	Ile	Thr	Val	Glu	Leu	Lys
65					70					75					80

Lys	Glu	Glu	Glu	Cys	Glu	Ser	Tyr	Thr	Val	Arg	Asp	Leu	Leu	Val	Thr
				85					90					95	

Asn	Thr	Arg	Glu	Asn	Lys	Ser	Arg	Gln	Ile	Arg	Gln	Phe	His	Phe	His
		100						105					110		

Gly	Trp	Pro	Glu	Val	Gly	Ile	Pro	Ser	Asp	Gly	Lys	Gly	Met	Ile	Ser
		115					120					125			

Ile	Ile	Ala	Ala	Val	Gln	Lys	Gln	Gln	Gln	Gln	Ser	Gly	Asn	His	Pro
	130					135					140				

Ile	Thr	Arg	Ala	Leu	Gln	Arg	Pro	Gly	Gln	Glu	Gly	Xaa	Gly	Pro	Ser
145					150					155					160

Val Pro

&lt;210&gt; 6934

&lt;211&gt; 95

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (85)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6145

&lt;400&gt; 6934

```

Val Arg Ala Ser Gln Ser Ser Phe Ile Gly Thr Leu Asn Met Ser Gly
 1             5             10             15

Ile Ala Leu Ser Arg Leu Ala Gln Glu Arg Lys Ala Trp Arg Lys Asp
          20             25             30

His Pro Phe Gly Phe Val Ala Val Pro Thr Lys Asn Pro Asp Gly Thr
          35             40             45

Met Asn Leu Met Asn Trp Glu Cys Ala Ile Pro Gly Lys Lys Gly Thr
          50             55             60

Pro Trp Glu Gly Gly Leu Phe Lys Leu Arg Met Leu Phe Lys Asp Asp
          65             70             75             80

Tyr Pro Ser Ser Xaa Pro Lys Cys Lys Phe Glu Pro Pro Leu Phe
          85             90             95

```

&lt;210&gt; 6935

&lt;211&gt; 194

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6935

```

Thr Pro Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val
 1             5             10             15

Gln Xaa Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala
          20             25             30

Arg Gly Gln Ile Thr Phe Pro Leu Ser Pro Ala Leu Asn Ile Glu Val
          35             40             45

Glu Gln Asn Gly Lys Pro Ser Leu Val Asp Leu Asn Glu Glu Met Gln
          50             55             60

His Met Asp Val Glu Glu Ser Gln Cys Leu Arg Leu Cys Pro Phe Leu
          65             70             75             80

Glu Asp His Lys Glu Asp Ile Leu Cys Gly Pro Val Trp Leu Ala Ser
          85             90             95

Gly Leu Asp Leu Ser Gly His Ala Gly Met Leu Thr Leu Thr Ser Pro

```

## 6146

100	105	110
Lys Leu Val Lys Gly Met Ala Gly Gly Lys Tyr Arg Ser Phe Leu Ile		
115	120	125
His Val Lys Ala Val Asn Glu Arg Gly Thr Glu Glu Ile Cys Asn Gly		
130	135	140
Gly Met Arg Pro Val Val Arg Leu Pro Ser Leu Lys His Gln Ser Asn		
145	150	155
Lys Gly Tyr Ser Leu Ala Ser Leu Leu Ala Lys Val Ala Ala Gly Lys		
165	170	175
Glu Lys Ser Ser Asn Val Lys Asn Glu Asn Thr Ser Gly Thr Arg Lys		
180	185	190

Ser Glu

<210> 6936  
 <211> 86  
 <212> PRT  
 <213> Homo sapiens

<400> 6936  
 Leu Ile Phe Ala Gly Lys Gln Leu Glu Asp Gly Arg Thr Leu Ser Asp  
 1 5 10 15  
 Tyr Asn Ile Gln Lys Glu Ser Thr Leu His Leu Val Leu Arg Leu Arg  
 20 25 30  
 Gly Gly Ile Ile Glu Pro Ser Leu Arg Gln Leu Ala Gln Lys Tyr Asn  
 35 40 45  
 Cys Asp Lys Met Ile Cys Arg Lys Cys Tyr Ala Arg Leu His Pro Arg  
 50 55 60  
 Ala Val Asn Cys Arg Lys Lys Lys Cys Gly His Thr Asn Asn Leu Arg  
 65 70 75 80  
 Pro Lys Lys Lys Val Lys  
 85

<210> 6937  
 <211> 198  
 <212> PRT

## 6147

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (196)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6937

Ile	Tyr	Xaa	Gln	Glu	Lys	Ala	Gln	Ser	Met	Glu	Thr	Leu	Pro	Pro	Gly
1				5					10					15	

Lys	Val	Arg	Trp	Pro	Asp	Phe	Asn	Gln	Glu	Ala	Tyr	Val	Gly	Gly	Thr
		20					25						30		

Met	Val	Arg	Ser	Gly	Gln	Asp	Pro	Tyr	Ala	Arg	Asn	Lys	Phe	Asn	Gln
		35					40					45			

Val	Glu	Ser	Asp	Lys	Leu	Arg	Met	Asp	Arg	Ala	Ile	Pro	Asp	Thr	Arg
	50					55					60				

His	Asp	Gln	Cys	Gln	Arg	Lys	Gln	Trp	Arg	Val	Asp	Leu	Pro	Ala	Thr
65					70				75						80

Ser	Val	Val	Ile	Thr	Phe	His	Asn	Glu	Ala	Arg	Ser	Ala	Leu	Leu	Arg
			85						90					95	

Thr	Val	Val	Ser	Val	Leu	Lys	Lys	Ser	Pro	Pro	His	Leu	Ile	Lys	Glu
		100						105					110		

Ile	Ile	Leu	Val	Asp	Asp	Tyr	Ser	Asn	Asp	Pro	Glu	Asp	Gly	Ala	Leu
		115						120				125			

Leu	Gly	Lys	Ile	Glu	Lys	Val	Arg	Val	Leu	Arg	Asn	Asp	Arg	Arg	Glu
	130					135					140				

Gly	Leu	Met	Arg	Ser	Arg	Val	Arg	Gly	Ala	Asp	Ala	Ala	Gln	Ala	Lys
145					150					155					160

Val	Leu	Thr	Phe	Leu	Asp	Ser	His	Cys	Glu	Cys	Asn	Glu	His	Trp	Leu
			165						170					175	

Glu	Pro	Leu	Leu	Glu	Arg	Val	Ala	Glu	Asp	Arg	Thr	Arg	Val	Gly	Ser
			180					185					190		

Pro	Ile	Ile	Xaa	Cys	His
			195		

## 6148

&lt;210&gt; 6938

&lt;211&gt; 85

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (84)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6938

Cys	Phe	Ile	Ala	Ile	Leu	Phe	Gly	Ser	Ser	Thr	Ile	Ser	Leu	Ser	Asp
1				5				10					15		

Glu	Ala	Ser	Arg	Arg	Cys	Ser	Val	Leu	Xaa	Ser	Thr	Leu	Ser	Ser	Gln
			20					25					30		

Ser	Cys	Lys	Gln	Leu	Arg	Val	Tyr	Leu	Ser	Pro	Leu	Ser	Lys	Glu	Ala
		35					40					45			

Ile	Asp	Asp	Ser	Pro	Arg	Leu	Leu	Ala	Lys	Leu	Leu	Ala	Leu	Lys	Leu
	50					55				60					

Cys	Tyr	His	Ile	Xaa	Leu	Glu	Val	Lys	Gly	Cys	Asn	Thr	Glu	Asn	Thr
65					70					75					80

Phe	Phe	Tyr	Xaa	Asp
				85

&lt;210&gt; 6939

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE



## 6149

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6939

Asp	Lys	Lys	Pro	Ile	Arg	Tyr	Ala	Arg	Xaa	Val	Phe	Xaa	Gln	Tyr	Gln
1				5					10					15	

Pro	Ser	His	Leu	Glu	Asn	Leu	Gln	Lys	Ala	Tyr	Val	His	Ser	Ile	Leu
			20					25					30		

Cys	Val	Ser	Glu
			35

&lt;210&gt; 6940

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6940

His	Glu	His	Phe	Pro	Cys	His	Leu	Tyr	Tyr	Phe	Leu	Asn	Tyr	Ser	Phe
1				5					10					15	

Ser	Leu	Ala	Cys	Leu	Ile	Pro	His	Pro	Pro	Lys	Ser	Ile	Cys	Leu	Ser
			20					25					30		

His	Ala	Ile	Ile	Phe	Ile	Phe	Met	Ser	Thr	Ala	Phe	Ile	Glu	Phe	Xaa
		35					40					45			

&lt;210&gt; 6941

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

## 6150

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6941

Leu	Arg	Val	Lys	Tyr	Lys	Leu	Leu	Ala	Ala	Val	Gly	Gly	Lys	Glu	Pro
1				5						10				15	

Asn	Pro	Lys	Leu	Trp	Gly	Phe	Pro	Leu	Phe	Pro	Arg	Glu	Ala	Xaa	Gly
			20					25						30	

Gly	Met	Asn	Asp	Pro	Lys	Gly	Asn	Glu	Gln	Thr	Xaa	Gly	Asn	Pro	Pro
		35					40					45			

Ser	Ala	Thr	Ser	Asp
	50			

&lt;210&gt; 6942

&lt;211&gt; 122

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6942

Ser	Arg	Val	Gly	Ser	Glu	Glu	Gln	Arg	Lys	Ala	Val	Gly	Asp	Val	Ala
1				5					10					15	

Thr	Val	Pro	Arg	Asp	His	Pro	Ala	Met	Glu	Thr	Arg	Glu	Leu	Ser	Leu
			20					25					30		

Arg	Gly	Arg	Gly	Leu	Ala	Ser	Lys	Lys	Asp	Arg	Glu	Trp	Thr	Gly	Arg
		35					40					45			

Gly	Pro	Leu	Ser	Ser	Gly	Pro	Lys	Glu	Asp	Ser	Ser	Arg	Arg	Arg	Glu
	50					55					60				

Ser	Glu	Arg	Gln	Gly	Pro	Cys	Ala	Gly	Leu	Leu	Leu	Arg	Leu	Gln	Ala
65					70					75					80

Gly	Ser	Leu	Pro	Glu	Ala	Val	Gln	Lys	His	Ser	Ser	Ala	Gly	Pro	Thr
				85					90					95	

Arg	Phe	Leu	Ser	His	Val	Lys	Phe	Arg	Ser	Ser	Val	Lys	Thr	His	Ser
			100					105					110		

## 6151

Ser Pro Ala Gly Val Leu Arg Asp Ala Arg  
 115 120

<210> 6943

<211> 53

<212> PRT

<213> Homo sapiens

<400> 6943

Cys Phe Leu Glu Arg Asn Gln Met Cys Phe Cys Gly His Ser His Phe  
 1 5 10 15

Leu Phe Cys Glu Phe Ser Lys Leu Ser Thr Ile Ala Ile His Ser Ala  
 20 25 30

Ile Phe Ile Val Tyr Asn Leu Leu Ser Leu Val Asp Lys His Gly Ser  
 35 40 45

Leu Phe Leu Lys Leu  
 50

<210> 6944

<211> 64

<212> PRT

<213> Homo sapiens

<400> 6944

Ser Pro Tyr Leu Leu Val Asn Val Ala Val Leu Leu Gln Asn Leu Phe  
 1 5 10 15

Gln Pro Phe Ser Asp Phe Lys Pro Pro Val Pro Leu Pro Leu Arg Glu  
 20 25 30

Asn Ser Asn His Lys Ser Leu Ser Thr Ser Tyr Tyr Leu Asn Ile Asp  
 35 40 45

Asn Phe Gln Ile Arg Glu Leu Arg Tyr Leu Lys Leu Arg Phe Leu Phe  
 50 55 60

<210> 6945

<211> 45

<212> PRT

## 6152

&lt;213&gt; Homo sapiens

&lt;400&gt; 6945

Asp Thr Glu Gly Lys Ser Trp Asn Phe His Lys Ser Leu Thr Gly Ala  
1 5 10 15  
Phe Leu Trp Leu Glu Leu Ala Gln Cys Asp Val Pro Glu Leu Val Gln  
20 25 30  
Arg Asn Ala Phe Ser Phe Ala Lys Gln Asn Phe Gln Glu  
35 40 45

&lt;210&gt; 6946

&lt;211&gt; 85

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6946

Gly Ala Ser Gln Ser Arg Ser Gly Ser Ser Val Arg Phe Pro Val Gly  
1 5 10 15  
Leu Thr Ala Gly Pro Trp Gly His His Pro His Leu Pro Ala Ser Ile  
20 25 30  
Ser Glu Thr Glu Ala Trp Glu Pro Pro Gly Pro Pro Glu Ser Gly Arg  
35 40 45  
Arg Lys Pro Ile Pro Gly Thr Gly Pro Gly Pro Phe Leu Val Arg Gly  
50 55 60  
Thr Leu Trp Ser Ile Val Gly Gln Arg Asn Leu Leu Phe Asn Ile Lys  
65 70 75 80  
Arg Ile Leu Cys Pro  
85

&lt;210&gt; 6947

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6947

Thr Gly Met Asn His His Ala Gln Pro His Leu Gln Phe Leu Lys Lys  
1 5 10 15  
Ile Leu Arg Ser Val Phe Phe Ile Val Tyr Lys Ser Phe Phe Val Ile  
20 25 30

Thr Lys Ile His Ala Phe Gly Arg Asn Thr Asn Ile Gln Arg Cys Ser  
35 40 45

```
<210> 6948
<211> 75
<212> PRT
<213> Homo sapiens
```

Asn Val Gly Ile Tyr Pro Ile Phe His Arg Asn Lys Val Gly Cys Ser  
20 25 30

Gly Ser Asn Phe Lys Cys Arg Leu Val Ile Ser Lys Cys Asn Gly Thr  
35 40 45

Ile Ile Ser Leu Val Gln Glu Thr Lys Leu Leu Pro Asn Leu Leu Leu  
50 55 60

Phe Cys Phe Phe Met Ala Tyr Phe Lys Leu Lys  
65 70 75

```
<210> 6949
<211> 61
<212> PRT
<213> Homo sapiens
```

<400> 6949  
Arg Lys His Gly Arg Thr Cys Trp Trp Gly Pro Ser Asn Ile Gln Leu  
1 5 10 15

Asn Leu Ser Pro Pro Ser Ser Pro Val Leu Cys Arg Asp Gly Ser Arg  
20 25 30

Leu Leu Cys Gly Leu Asp Ile Ser Glu Gln Pro Asn Leu Ala Gly Ile  
35 40 45

Asn Pro Lys Gly Thr Gly Leu Arg Gly Gln Glu Leu Lys  
50 55 60

## 6154

&lt;210&gt; 6950

&lt;211&gt; 94

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6950

Trp Asp Gln Arg Lys Arg Asn Ser Leu Val Pro Gly Pro Ala His Gly  
1 5 10 15

Pro Ala Gln Glu Glu Pro Trp Glu Lys Lys Glu Ser Leu Gly Ala Ala  
20 25 30

Gln Glu Ala Leu Ser Ile Gln Leu Gln Pro Lys Glu Thr Gln Pro Phe  
35 40 45

Pro Lys Ser Glu Gln Val Tyr Leu His Phe Leu Ser Val Val Thr Glu  
50 55 60

Asp Gly Pro Glu Pro Lys Asp Lys Gly Ser Leu Pro Gln Pro Pro Ile  
65 70 75 80

Thr Glu Val Glu Ser Gln Val Phe Ser Glu Lys Leu Ala Thr  
85 90

&lt;210&gt; 6951

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6155

<220>  
 <221> SITE  
 <222> (12)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6951  
 Gly Asn Lys Xaa Xaa Val Pro Xaa Val Xaa Pro Xaa Xaa Thr Met Asp  
     1                    5                    10                    15  
 Pro Xaa Ala Ala Asp Ser Ala Glu Gln Arg Gln Arg Glu Pro Ala Gly  
                     20                    25                    30  
 Pro Gln Val Ser Ser Asp Ala Ser Glu Ile Ser Cys Val Phe Val Ser  
                     35                    40                    45  
 Ser Glu Leu His Arg Ser Leu Thr Leu Glu Pro Ala Cys Leu Pro Ala  
     50                    55                    60  
 Ala Val Leu Cys Ile Leu Arg Asn Gln  
     65                    70

<210> 6952  
 <211> 116  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE

## 6156

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6952

```

Arg Xaa His Xaa Leu Glu Leu His Arg Gly Ala Xaa Ala Leu Glu Leu
 1             5             10             15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Phe Pro Leu Lys
          20             25             30

Arg Arg Arg Lys Arg Glu Gly Glu Gln Glu Lys Lys Lys Leu Pro Tyr
          35             40             45

Met Ser Val Phe Leu Tyr Lys Lys Val Thr Pro Tyr Lys Glu Thr Thr
          50             55             60

Ile Gln Ala Gly Ala Arg Gly Leu Gly Ser Arg Gly Ile Pro Gly Glu
 65             70             75             80

Gln Ser Gln Gly Ile Pro Ser Lys Ser Pro Thr Cys Ser Glu Tyr Pro
          85             90             95

Thr Asn Val Ser Gly Ala Ser Ala Glu Val Ala Met Leu Asn Ala Ser
          100            105            110

Ser Ile Pro Gly
          115

```

&lt;210&gt; 6953

&lt;211&gt; 92

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6953

```

Leu Ser Ile Val Cys Arg Met Asp Glu Arg Glu Ala Ala Glu Arg Gln
 1             5             10             15

Gln Gly His Ser Ala Ser Ser Gly Gly Arg Ser His Leu Met Glu Glu
          20             25             30

Asn Gln Phe Lys Glu Met Pro Phe Leu Tyr Arg Thr Pro Phe Asn Ser
          35             40             45

Ile Gln Glu Glu Arg Glu Ala Ala Ile Leu Arg Leu Ser Lys Tyr Ser
          50             55             60

Arg Gly Cys Pro Arg Met Ala Val Met Pro Gly Phe Trp Gln Val Pro
 65             70             75             80

```



**6157**

Asp Ser Ile Thr Ser Pro Ala Ser Leu His Gln Ile  
                                     85                                    90

<210> 6954

<211> 95

<212> PRT

<213> Homo sapiens

<400> 6954

Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Gly Gln Arg Trp Phe  
     1                                    5                                    10                                    15

Tyr Pro Cys Leu Leu Leu Phe Phe Ser Leu Arg Phe Leu Arg Arg Arg  
                                     20                                    25                                    30

Leu Leu Ser Arg Lys Cys Ala Val Val Ile Leu Glu Arg Leu Glu Ala  
                                     35                                    40                                    45

Leu Leu Ala Thr Leu Gly Pro Arg Arg Ala His Val Met Thr Pro Thr  
                                     50                                    55                                    60

Pro Gly Glu Arg Arg Arg Cys Gly Thr His Arg Pro Thr Gly Arg Val  
     65                                    70                                    75                                    80

Ser Gly Gly Thr Leu Ile Val Ala Gly Arg Ser Gly Ala Ala Val  
                                     85                                    90                                    95

<210> 6955

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6158

&lt;400&gt; 6955

Xaa Ser Val Phe Xaa Glu Glu Gln Lys Met Glu Gln Leu Asp Xaa Arg  
 1 5 10 15  
 Ala Leu Ala Pro Leu Val Met Leu Pro Ala Thr Arg Thr Cys Asp Leu  
 20 25 30  
 Val Gln Lys Arg Ala Ala Val Leu Ser Ser Trp Trp Gln Val Met Tyr  
 35 40 45  
 Met Val Arg Arg Gln Arg Asp Ala Met Val Ala Gly Ala Ala Val Val  
 50 55 60  
 Glu Ser Thr Gly Arg His Ser Ala Trp  
 65 70

&lt;210&gt; 6956

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6956

His Pro Val Leu Pro Ser Val His Leu Ala Asp Pro Gly Gly Leu Cys  
 1 5 10 15  
 Pro Trp Gly Arg Gly Arg Arg Arg Gly Asp Cys Pro Arg His Pro His  
 20 25 30  
 Gly Gly Leu Cys Gly Leu Phe Pro Gly Leu Pro Asp Gly His Ile Pro  
 35 40 45  
 Gly Asp Leu Ser Arg Arg Val Arg Gly Gly Gln Gly Gly Ala Glu Arg  
 50 55 60  
 Pro Val Phe Pro Val Gly Arg Arg Arg Gln Gly Arg Arg Glu Gln Arg  
 65 70 75 80  
 Lys Ala His Arg Ala Glu Ala His Ala Glu Gly Gly Pro Ala Gly Thr  
 85 90 95  
 Gly Gly Asp Arg Val Arg Gly Leu Ser Arg Thr Pro Val Tyr Thr His  
 100 105 110  
 Ser Ser

&lt;210&gt; 6957

## 6159

<211> 26  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6957  
Val Leu Ser Met Phe Ile His Lys Asn Lys Ser Xaa Xaa Tyr Phe Xaa  
1 5 10 15

Ser Leu Arg Met Leu Lys Lys Ala Asn Pro  
20 25

<210> 6958  
<211> 28  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)

## 6160

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6958

Trp	Xaa	Xaa	Gly	Leu	Gln	Glu	Phe	Gly	Arg	Xaa	Gln	Lys	Ser	Ser	Leu
1				5				10						15	

Ala	Thr	Phe	Val	Gly	Ser	Xaa	Pro	Ser	Xaa	Gly	Pro
			20				25				

<210> 6959

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6161

<220>  
 <221> SITE  
 <222> (52)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (67)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6959  
 Arg Pro Ala Ser Arg Ala Gly Leu Lys Ala Xaa Pro Leu Leu Xaa Lys  
           1                  5                  10                  15  
 Ser Trp Pro Pro Lys Xaa Cys Leu Xaa Glu Thr Ala Arg Thr Phe Asn  
                   20                  25                  30  
 Phe Xaa Pro Ala Gly Ser Asp Leu Gly Trp Ile Leu Val Xaa Phe Pro  
           35                  40                  45  
 Leu Leu Gln Xaa Pro Pro Pro Leu Pro Arg Pro Phe Phe Phe Phe Phe  
           50                  55                  60  
 Xaa Lys Xaa Val Phe Tyr Xaa Glu Ile  
           65                  70

<210> 6960  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 6960  
 Pro Ala Ala Pro Ser Phe Ala Trp Thr Leu Thr Ser Phe Met Val Leu  
           1                  5                  10                  15  
 Leu Leu Gln Gly Gln Pro Pro Ser Ser Ser Ala Ser Lys Leu Cys Asn  
                   20                  25                  30  
 Leu Gln Pro Ala Pro Val Pro Asp Cys Ile Thr Ser Asp Leu His Trp

## 6162

35

40

45

Phe

&lt;210&gt; 6961

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6961

Phe	Tyr	Ala	Ser	Leu	Phe	Leu	Arg	Trp	Ser	Thr	Ile	Ser	Glu	Asn	Leu
1				5					10					15	

Phe	Ala	Thr	Thr	Gly	Tyr	Pro	Gly	Lys	Met	Ala	Ser	Gln	Phe	Gln	Ile
			20					25					30		

His	His	Leu	Gly	His	Pro	Gln	Pro	Ile	Leu	Met	Gly	Ser	Val	Ala	Val
		35					40					45			

Gly	Ser	Gly	Leu	Ser	Trp	His	Arg	Thr	Leu	Pro	Leu	Cys	Val	Ile	Gly
	50					55					60				

Arg	Glu	Thr	Thr	Ser	Cys	Cys	Phe	Gly
65					70			

&lt;210&gt; 6962

&lt;211&gt; 84

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6962

Leu	Thr	Asn	His	Ser	Tyr	Pro	Arg	Tyr	Ser	Lys	Xaa	Leu	Thr	Gln	Lys
1				5					10					15	

Pro	Asn	Asn	Ala	Tyr	Asn	Phe	Phe	Gly	Val	Lys	Ser	Thr	Ser	Leu	Val
			20					25					30		

[illegible]

Arg Pro Ala Arg Ser Pro Ala Glu Val Gly Ser Arg Gly Leu Ser Ser  
1 5 10 15

## 6164

Pro Pro Arg Ala His His Arg Pro Val Ser Pro Ala Ala Pro Gly Arg  
                   20                  25                  30

Trp Ser Thr Ser Ala Arg Val Arg Thr Arg Lys Met Val Asn Tyr Ala  
           35                  40                  45

Trp Ala Gly Arg Thr Glu Glu Thr Leu Val Glu Val Arg Ser Gly Pro  
       50                  55                  60

Asp Val Gln Ile Gly Arg Pro Thr Trp Val  
       65                  70

&lt;210&gt; 6965

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6965

Lys Ala Glu Thr Lys Pro Glu Leu Thr Pro Lys His Val Asp Xaa Val  
       1                  5                  10                  15

Thr Xaa Met Ser Leu Phe Gly Ile Thr Leu Leu Phe Met Ser His Ile  
                   20                  25                  30

Leu Val Gly Ser Ser Asp  
       35

&lt;210&gt; 6966

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids



## 6165

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6966

Asn	Ser	Ala	Xaa	Asp	Trp	Ser	Lys	Xaa	Cys	Ile	Leu	Arg	Asp	Met	Asn
1				5				10					15		

Val	Gln	Ser	Leu	Asp	His	Glu	Asp	Asp	Arg	Ile	Pro	Arg	Asn	Ser
			20				25						30	

&lt;210&gt; 6967

&lt;211&gt; 79

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 6166

<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (55)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (56)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (58)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (59)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (60)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (64)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 6167

<222> (65)  
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 <220>  
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 <222> (67)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
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 <222> (68)  
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 <220>  
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 <222> (78)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 6967  
 Val Gly Leu Leu Ser Phe Ser Xaa Glu Gly Ser Leu Ala Leu Xaa Val  
   1                  5                  10                  15  
  
 Xaa Glu Asp Gly Leu Ile Glu Gly Xaa Val Xaa Ser Trp Asn Pro Asn  
                   20                  25                  30  
  
 Ser Cys Val Xaa Gly Val Thr Leu Val Leu His Asn Val Xaa Leu Trp  
           35                  40                  45  
  
 Trp Ile Gly Xaa Thr Glu Xaa Xaa Xaa Xaa Xaa Xaa Phe Xaa Ile Xaa  
       50                  55                  60  
  
 Xaa Cys Xaa Xaa Xaa Ser Xaa Lys Ser Val Phe Glu Gly Xaa Gln  
       65                  70                  75  
  
  
 <210> 6968  
 <211> 115  
 <212> PRT  
 <213> Homo sapiens

## 6168

<220>  
<221> SITE  
<222> (64)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (69)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (70)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (82)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (83)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (89)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (91)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (97)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (100)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 6169

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<220>  
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 <222> (104)  
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 <222> (110)  
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<220>  
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 <222> (113)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (114)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6968  
 Met Leu Phe Ile Leu Pro Thr Asn Leu His Ser Ser His Gly Ile Thr  
 1 5 10 15  
 Ala Gln Thr Thr Trp Gln Thr Glu Arg Gln Met Gln Ser Cys Thr Asp  
 20 25 30  
 Ser Val Gly Pro Ala Gly Val Gly His Leu Asn Arg Pro Leu Leu Pro  
 35 40 45  
 Asn Ser Leu Arg Trp Val Glu Gln Glu Gly Leu Pro Trp Pro Arg Xaa  
 50 55 60  
 His Gly Arg Lys Xaa Xaa Phe Phe Ser Arg Arg His Val Ile Val Gly  
 65 70 75 80  
 Xaa Xaa Xaa Tyr Ile Ile Leu Gly Xaa Pro Xaa Phe Leu Lys Asn Ser

## 6170

85

90

95

Xaa Arg Val Xaa Lys Ile Xaa Xaa Lys Trp Gly Xaa Xaa Xaa Lys Val  
100 105 110

Xaa Xaa Ile  
115

&lt;210&gt; 6969

&lt;211&gt; 63

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6969

Lys Ser Phe Leu Ser Leu Tyr Leu Gly Leu Phe Thr Phe Arg Phe Phe  
1 5 10 15

Phe Asn Val Ile Ile Phe Thr Leu Trp Ile Ser Asn Phe Val Pro Phe  
20 25 30

Lys Ile Arg Asp Arg Arg His Ile Gln Leu Asp Leu Leu Met Thr Phe  
35 40 45

Cys Trp Thr Thr Phe Leu His Glu Cys Phe Xaa Ala Leu Gly Asp  
50 55 60

&lt;210&gt; 6970

&lt;211&gt; 99

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (75)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (89)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 6171

&lt;221&gt; SITE

&lt;222&gt; (94)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (98)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6970

Ala Leu Pro Asn Ala Gly Thr His Ser Val Thr Arg Thr Arg Phe Leu  
1 5 10 15

Ser Val Pro Phe Leu Pro Met Leu Val Pro Phe Ala Ile Asp Ser Gly  
20 25 30

Leu Ile Ser Gly Lys Thr Ala Leu Cys Asn Phe Leu Tyr Leu Leu Arg  
35 40 45

Val Gln Ser Gly Gly Glu Arg Leu Arg Asp Pro Gly Phe Ser Trp Cys  
50 55 60

Phe Ile Gly Ser Asp Trp Val Met Ser Pro Xaa Tyr Glu Thr Asn Cys  
65 70 75 80

Cys Gly Leu Gln Lys Cys Gly Gln Xaa Pro Leu Asp Ser Xaa Gly Phe  
85 90 95

Ser Xaa Cys

&lt;210&gt; 6971

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

## 6172

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids



## 6173

&lt;400&gt; 6971

```

Tyr Pro Trp Lys Gly Phe Arg Gln Xaa Ser Ser Ser Gly Asn Ser Xaa
 1             5             10             15

Glu Ser Arg Trp Xaa Ser Trp Xaa Met Ala Phe Ser Gly Xaa Xaa Ser
          20             25             30

Pro Gly Thr Gly Cys Leu Xaa Tyr Lys His Xaa Xaa Thr His Met Xaa
      35             40             45

Glu Val Lys Lys Ser Xaa Phe Arg Lys His Phe Phe Asn Gly Leu Asn
      50             55             60

Xaa Gly Gly Phe Xaa Phe
65             70

```

&lt;210&gt; 6972

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6972

```

Val Xaa Leu Val Ala Asp Leu Ser His Ala Leu Arg Ile Arg Leu Tyr
 1             5             10             15

Lys Tyr Ile Trp Ala Lys Pro Ser Xaa Ala Met Gly Met Trp Lys Arg
          20             25             30

Tyr Val Gly Ser Ser Val Glu Tyr Gln Ser Met Met Arg Thr Phe Ser
      35             40             45

Arg Pro Ser Ser Gly Leu Glu Phe Gly Phe Gln
      50             55

```

&lt;210&gt; 6973

&lt;211&gt; 59

## 6174

<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6973  
Gln Ala Ser Leu Gly Ser Xaa Thr Gln Trp Phe Xaa Phe Ser Lys Cys  
1 5 10 15  
Ser Lys Arg Ala Ser Thr Asn Val Gln Val Asn Phe Xaa Ser Phe Cys  
20 25 30  
Leu Gly Ile Met Phe Ala Thr Val Leu Leu Asn Gln Ser Lys Ser Phe  
35 40 45  
Met Asn Gln Pro Arg Phe Gln Gly Leu Glu Glu  
50 55

<210> 6974  
<211> 46  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)

## 6175

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6974

Asn Ser Ala Gln Leu Gln Leu Leu Lys Val Arg Phe Arg Leu Phe Asn

1

5

10

15

Pro Leu Leu Met Asn Ala Asn Met Xaa Gln Xaa Trp Val Gly Ile Leu

20

25

30

Gln Val Ile Phe Ile Ser Ala Gln Arg Xaa Lys Thr Ile Ser

35

40

45

<210> 6975

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6975

Phe Gly Xaa Asn Arg Ser Gly Ser Arg Thr Leu Pro Ser Thr Ala Glu

1

5

10

15

Gln Pro Ala Arg Glu Val Glu Gly Leu Gly Arg Ala Pro Gly Lys Glu

20

25

30

Trp Glu Met Val Arg Ile Gly Val Gly Gly Ala Lys Arg Gly Xaa Ser

35

40

45

Pro Arg Cys Thr

50

<210> 6976

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

## 6176

&lt;222&gt; (57)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (66)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (71)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (76)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (83)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6976

Ala	Ser	Arg	His	Gln	Asn	Asn	Val	Ser	Ser	Glu	Ile	Asn	Ser	Gly	Ile
1				5				10						15	

Pro	Pro	Arg	Asn	Met	Ala	Asn	Arg	Arg	Asn	His	Lys	Glu	Trp	Gly	Pro
			20				25						30		

Gln	Gly	Gly	Gly	Trp	Ser	Asn	Asp	Glu	Leu	Thr	Thr	Leu	Ile	Ile	Pro
		35					40					45			

Ser	Lys	Trp	Val	His	Ile	Tyr	Gln	Xaa	Gly	Gly	Leu	Leu	Leu	Leu	Phe
	50					55					60				

Ala	Xaa	Met	Leu	Lys	Xaa	Xaa	Val	Gly	Cys	Phe	Xaa	Gly	Lys	Cys	Pro
65					70					75					80

Gly Glu Xaa Ser

&lt;210&gt; 6977

&lt;211&gt; 65

6177

<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)

## 6178

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

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<220>

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<220>

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<220>

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<220>

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<220>

<221> SITE

<222> (47)

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<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6179

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6977

Glu	Ala	Pro	Arg	Xaa	Gly	Xaa	Pro	Ile	Xaa	Phe	Gly	Gly	Xaa	Cys	Cys
1				5					10					15	

Asp	Phe	Gln	Ile	Xaa	Xaa	Xaa	Gly	Xaa	Phe	Gly	Ile	Tyr	Glu	Glu	Xaa
			20					25					30		

Trp	Gly	Xaa	Xaa	Xaa	Gly	Xaa	Gly	Xaa	Trp	Gly	Glu	Val	Xaa	Xaa	Ile
		35					40					45			

Phe	Gln	Gly	Gly	Leu	Xaa	Lys	Gly	Xaa	Lys	Lys	Xaa	Lys	Xaa	Xaa	Xaa
		50				55					60				

Pro

65

&lt;210&gt; 6978

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 6180

<222> (25)  
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<220>  
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<220>  
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<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)



## 6181

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6978

Lys	Leu	Xaa	Arg	Leu	Leu	Val	Ser	Gly	Leu	Gly	Phe	Ser	Ser	Arg	Leu
1				5					10					15	

Asn	Xaa	Met	Ile	Pro	Lys	Xaa	Val	Xaa	Lys	Met	Xaa	Xaa	Phe	Xaa	Gly
			20					25					30		

Gly	Gln	Xaa	Gly	Ile	Xaa	Gly	Xaa	Xaa	Xaa	Xaa	Val	Gln	Pro	Xaa	Arg
		35					40					45			

Xaa	Xaa	Xaa	Pro	Leu	Pro	Cys	Phe	Xaa	Pro	Arg	Gly
		50				55					60

<210> 6979

<211> 65

<212> PRT

<213> Homo sapiens

<220>

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<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6182

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## 6183

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<400> 6979  
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     1                  5                  10                  15

Asn Trp Phe Gly Pro Xaa Xaa Xaa Leu Leu Xaa Gly Xaa Ala Xaa Arg  
                   20                  25                  30

Leu Xaa Glu Arg Gly Gly Xaa Xaa Arg Gly Xaa Xaa Pro Asp Trp Xaa  
           35                  40                  45

Arg Trp Ala Xaa Leu Gly Xaa Gly Asn Arg Val Phe Ala Leu Gly Gly

## 6184

50

55

60

Xaa

65

&lt;210&gt; 6980

&lt;211&gt; 68

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6185

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## 6186

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<220>  
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<400> 6980  
Asp Phe Gly Xaa Gly Xaa Thr Xaa His Xaa Val Xaa Ser Xaa Xaa Arg  
1 5 10 15  
Xaa Val Leu His Arg Lys Val Phe Xaa Met Val Gly Ser Gln Lys Asn  
20 25 30  
Leu Pro Arg Xaa Leu Met Leu Xaa Val Xaa Phe Xaa Glu Xaa Leu Xaa  
35 40 45  
Thr Xaa Glu Xaa Asp Cys Xaa Xaa Gly Xaa Gly Xaa Cys Trp Lys Gln  
50 55 60  
Gln Glu Ala Xaa  
65

<210> 6981  
<211> 86  
<212> PRT  
<213> Homo sapiens

<220>  
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<220>  
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## 6187

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<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6981

Phe	Gly	Thr	Gly	Asn	Ser	Thr	Ser	Asn	Pro	His	Pro	Gly	Pro	Gln	Leu
1				5				10					15		

Trp	Arg	Arg	Xaa	Leu	Gly	Arg	Glu	Leu	Ala	Ser	Ser	Pro	Ser	Thr	Xaa
			20				25					30			

Lys	Pro	Gly	Asp	Ala	Pro	Xaa	Trp	Ala	Gly	Pro	Thr	Lys	Gly	Pro	Xaa
	35					40					45				

Pro	Gln	Gly	Arg	Ala	Pro	Gly	Ala	Gly	Phe	Pro	Arg	Glu	Ala	Thr	Phe
	50					55			60						

Pro	Leu	Val	His	Gly	Pro	Gly	Ile	Asp	Ala	Pro	Phe	Gly	Gln	Xaa	Pro
65					70				75					80	

Gly	Xaa	Ser	Lys	Val	Gly
				85	

<210> 6982

<211> 83

<212> PRT

<213> Homo sapiens

<220>

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<222> (45)

## 6188

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<220>

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<220>

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<222> (53)

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<221> SITE

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<222> (67)

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<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6982

Arg	Leu	Ala	Leu	Arg	Pro	Ser	Asp	Leu	His	Ile	Trp	Gly	Gln	Phe	Cys
1				5						10				15	

Leu	His	Trp	Phe	Leu	Pro	Leu	Asp	Gly	Thr	Gly	Leu	Arg	Trp	Leu	Arg
			20					25					30		

Leu	Ala	Ala	Trp	Ala	Phe	Leu	Phe	Lys	Ile	Pro	Trp	Xaa	Gly	His	Thr
			35					40				45			



## 6189

Xaa Lys Thr His Xaa Ala Asp Glu Glu Asn Glu Arg Leu Arg Xaa Asp  
50 55 60

Xaa Gln Xaa Leu Arg Xaa Leu Trp His Arg Gly Xaa Phe Ser Ser Pro  
65 70 75 80

Xaa Lys Ser

<210> 6983

<211> 126

<212> PRT

<213> Homo sapiens

<220>

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<222> (98)

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## 6190

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<400> 6983  
 Pro Phe Leu Pro Phe Leu Leu His Tyr Trp Tyr Tyr Leu Ile Arg Ile  
 1 5 10 15  
 Val Leu Cys Phe Glu Asn Leu Phe Phe Pro Gln Xaa Ser Leu Thr Tyr  
 20 25 30  
 Phe Leu Gln Thr Asp Arg Ile Gln Arg Lys Asn Ser Pro Ser Phe Ile  
 35 40 45  
 His Tyr Glu Met Asn Phe Ser Phe Glu His Val Ile Leu Leu Phe Cys  
 50 55 60  
 Ser Asn Gly Asp Gln Arg Asp Thr Gly Xaa Pro Pro Val Phe Ser Ser  
 65 70 75 80  
 Ser Phe Gln Phe Trp Thr Xaa Lys Glu Arg Gly Leu Val Xaa Ile Val  
 85 90 95  
 Ala Xaa Leu Xaa Leu Xaa Gln Ala Cys Gly Asp Xaa Arg Xaa Xaa Gly

## 6191

	100		105		110								
Val	Xaa	Gly	Ser	Arg	Val	Leu	Val	Met	Xaa	Asn	Val	Xaa	Phe
		115					120					125	

<210> 6984

<211> 58

<212> PRT

<213> Homo sapiens

<220>

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## 6192

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<220>  
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## 6193

&lt;400&gt; 6984

Ile Xaa Asn Phe Pro Xaa Cys Thr Xaa Xaa Xaa Leu Ala Xaa Lys Gly  
 1 5 10 15

Lys Val Lys Leu Trp Leu Val Ile Gln Xaa Xaa Leu Met Xaa Pro Xaa  
 20 25 30

Lys Leu Ala Ala Lys Xaa Gly Xaa Pro Ala Xaa Xaa Leu Val Trp Gly  
 35 40 45

Gln Gly Xaa Pro Xaa Val Pro Pro Xaa Xaa  
 50 55

&lt;210&gt; 6985

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6985

Ile Lys His Thr Leu Ile Lys Cys Ala Phe Xaa Ile Asn Ser Gln Cys  
 1 5 10 15

Leu Xaa Phe Ser Ser Gly Arg Glu Pro Ala Leu Ala Leu Gly Glu Ser  
 20 25 30

Ser Thr Ala Glu Val Lys Leu Met Arg Ala His Gln Gly Met Leu Glu  
 35 40 45

Gly Gly Gly  
 50

&lt;210&gt; 6986

&lt;211&gt; 84

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

## 6194

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<220>  
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<220>  
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## 6195

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 <400> 6986  
 Arg Thr Met Met Lys Tyr Gly Asp Met Phe Ser Val Pro Arg Pro Ala  
   1                  5                  10                  15  
  
 Ala Lys Xaa Gln Ile Gln Ala His Ser Ala Pro Ser Phe Xaa Gly Phe  
                   20                  25                  30  
  
 Pro Xaa Phe Ala Leu Arg Gly Xaa Phe Arg Gly Gly Leu Gly Pro Pro

## 6196

35 40 45

Gly Xaa Gly Leu Gln Xaa Xaa Val Phe Xaa Pro His Gly Leu Xaa Xaa  
50 55 60

Gly Pro Xaa Xaa Xaa Val Phe Pro Gly Ala Xaa Gly Xaa Xaa Gly Xaa  
65 70 75 80

Xaa Asn Xaa Trp

<210> 6987

<211> 132

<212> PRT

<213> Homo sapiens

<220>

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<222> (3)

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<222> (67)

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<220>

<221> SITE

<222> (79)

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<222> (80)



## 6197

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<220>

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<222> (96)

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<220>

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<222> (115)

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<220>

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## 6198

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<220>  
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<220>  
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<400> 6987  
 Phe Gly Xaa Ala Ala Trp His Arg Pro Ala Ala Arg Gly Gln Ser Pro  
 1 5 10 15  
 Arg Arg Cys His Ala Xaa Val His Arg Ser Gln Cys Xaa Leu Cys Arg  
 20 25 30  
 Leu Gly Ala Ala Gly Glu Arg Gly Arg Gln Pro Gly Arg Gly Thr Gly  
 35 40 45  
 Thr Pro Gly Glu Pro Ser Arg Pro Lys Ala Leu Xaa Leu Pro Gln Ser  
 50 55 60  
 Val Ser Xaa Gly Leu Val Ala Leu Leu Ala Ser Arg Asn Leu Xaa Xaa  
 65 70 75 80  
 Pro Pro Leu His Trp Val Leu Leu Ala Leu Ala Leu Val Asn Leu Xaa  
 85 90 95  
 Leu Xaa Leu Pro Val Xaa Trp Gly Phe Phe Cys Cys Val Asn Tyr Cys  
 100 105 110  
 Gly Xaa Xaa Xaa Ala Xaa Xaa Xaa Leu Xaa Xaa Xaa Xaa Xaa Asp Phe  
 115 120 125  
 Leu Asp Leu Trp  
 130

## 6199

&lt;210&gt; 6988

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6988

Asn	Ala	Asp	Val	Xaa	Val	Pro	Ser	Leu	Ser	Gln	Xaa	Thr	Gly	Cys	Pro
1				5					10					15	

Val	Trp	Arg	Thr	Ala	Gln	Met	Gln	Leu	Tyr	Glu	His	Tyr	Gly	Lys	Cys
			20					25					30		

Ala	Gly	Lys	Lys	Arg	Gln	Leu	Val	Xaa	Pro	Thr	Phe	Ala	Leu	Val	Ser
		35					40					45			

Arg	Ala	Ser	Trp	Val	Val	Xaa	Cys	Lys	Ala	Pro	Gly	Gly	Gly	Ile	Phe
	50					55					60				

&lt;210&gt; 6989

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

## 6200

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6989

Leu	Tyr	Ser	Glu	Asp	Thr	Ile	Phe	Thr	Leu	Gly	Val	Asn	Ser	His	Xaa
1				5					10					15	

Lys	Gln	Ala	Ser	Thr	Gly	Xaa	Lys	Leu	Gly	Glu	Val	Phe	Glu
			20				25						30

<210> 6990

<211> 97

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

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<221> SITE

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<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6201

<220>  
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<220>  
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<220>

## 6202

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<220>  
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<220>  
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 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6990  
 Asn Ile Phe Lys Leu Ile Gln Arg Xaa Leu Leu Leu Asp Asn Ser Ile  
   1                  5                  10                  15  
 Leu Glu Asn Asn Phe Pro Thr Tyr Ser Ile Xaa Ala Ser Lys Val Xaa  
                   20                  25                  30  
 Gln Xaa Leu Xaa Lys Leu Arg Gly Gly Phe Gly Gly Xaa Gly Phe Phe  
           35                  40                  45  
 Thr Leu Xaa Arg Xaa Phe Phe Phe Xaa Phe Leu Xaa Arg Xaa Leu Leu  
   50                  55                  60  
 Leu Gly Glu Phe Ala Pro Gly Gly Xaa Leu Phe Ser Arg Xaa Xaa Xaa  
   65                  70                  75                  80  
 Phe Xaa Gln Xaa Phe Xaa Xaa Gly Val Xaa Gly Xaa Pro Phe Xaa Glu

## 6203

85

90

95

Xaa

&lt;210&gt; 6991

&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6991

Ile	Arg	Xaa	Xaa	Leu	Pro	Ser	Gln	Met	Ser	Cys	Arg	Lys	Arg	Phe	Asp
1				5					10					15	

Val	Met	Trp	Arg	Ser	Arg	Arg	Val	Ile	Asp	Gly	Pro	Xaa	Leu	Glu	Trp
			20					25					30		

Lys	Val	Gln	Ile	Pro	Ala	Thr	Gln	Leu	Lys	Arg
		35					40			

&lt;210&gt; 6992

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 6204

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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (35)  
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<220>  
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<222> (36)



## 6205

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6992

Leu	Glu	Glu	Trp	Gly	Ser	Gly	Xaa	Trp	Xaa	Gln	Leu	Ile	Xaa	Xaa	Phe
1				5				10						15	

Xaa	Asp	Phe	Ile	Gly	Glu	Gly	Ser	Xaa	Gly	Xaa	Xaa	Glu	Xaa	Xaa	Thr
			20					25				30			

Val	Val	Xaa	Xaa	Cys	His	Gln	Pro	Trp	Pro	Gln	Leu	Ala	Xaa	Leu	Gly
		35					40					45			

Phe	Gly	Arg	Lys	Pro	Asp	Xaa	Xaa	Pro
	50					55		

<210> 6993

<211> 100

<212> PRT

<213> Homo sapiens

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6206

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (53)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

## 6207

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<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<220>

## 6208

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 <400> 6993  
 Gln Met Xaa Tyr Met Thr Lys Glu Thr Val Ser Asn Ser Leu Asn Ser  
 1 5 10 15  
 Pro Leu Trp Xaa Asp Leu Leu Xaa Ile Thr Lys Leu Leu Leu Phe Ser  
 20 25 30  
 Gln Lys Arg Ile Ser Xaa Trp Met Val His Gly Asn Xaa Phe Xaa Xaa  
 35 40 45  
 Xaa Gly Xaa Xaa Xaa Gly Val Xaa Gly Xaa Xaa Xaa Xaa Xaa Phe Gly  
 50 55 60  
 Gly Phe Phe Gly Pro Xaa Xaa Leu Xaa Xaa Pro Pro Xaa Xaa Gly Gly  
 65 70 75 80  
 Phe Phe Xaa Asn Xaa Pro Xaa Phe Gly Xaa Gly Gly Gly Asn Xaa Xaa

## 6209

85

90

95

Pro Arg Pro Xaa  
100

&lt;210&gt; 6994

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6994

Gly Arg Ala Glu Pro Arg Arg Ala Trp Ala Val Gly Ser Gly Lys Gly  
1 5 10 15

Ser Val His Ser Gly Thr Pro Val Lys Pro Val Gln Pro Ser Val Ser  
20 25 30

Cys Gly His Leu Glu Ser Thr Leu Ser Leu Leu Cys Pro Ser Thr Pro  
35 40 45

Arg Thr Val Ser Leu Ser Gln Met Glu Ala Glu Leu Asn Thr Leu Arg  
50 55 60

Trp Met Met Glu Thr  
65

&lt;210&gt; 6995

&lt;211&gt; 63

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 6210

&lt;221&gt; SITE

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6995

Phe	Lys	Pro	Asp	Asp	His	Asn	Leu	Xaa	Met	Glu	Val	Val	Arg	Ile	Phe
1				5					10					15	

Gly	Pro	Gln	Gly	Pro	Glu	Asn	Pro	Gln	Cys	Ser	Xaa	Gly	Asp	Thr	Leu
		20						25					30		

Gln	Lys	Asn	Val	Cys	Xaa	Pro	Glu	Lys	Gly	Val	Gly	Pro	Leu	Val	Ala
		35					40					45			

Ala	Ala	Thr	Val	Pro	Val	Tyr	Met	Gly	Pro	Val	Lys	Ile	Xaa	Gly	
	50					55					60				

&lt;210&gt; 6996

&lt;211&gt; 106

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 6211

<222> (28)  
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<220>  
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 <222> (32)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (105)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6996  
 Ala Ser Pro Pro Gly Asn Ala Leu Gly Leu Xaa Xaa Arg Xaa His Met  
 1 5 10 15  
 Gln Gly Ser Thr Arg Arg Met Xaa Val Met Xaa Xaa Val His Arg Xaa  
 20 25 30  
 Phe Leu Xaa Phe Leu Met Thr His Gly Val Leu Lys Glu Trp Glu Arg

## 6212

35					40					45						
Glu	Arg	Pro	Cys	Arg	Gly	Thr	Ala	Thr	Arg	Ser	Met	Asn	Arg	Ser	Ala	
50					55					60						
His	Arg	Arg	Xaa	Xaa	Trp	Arg	Thr	Ser	Ser	Asn	Asn	Ile	Xaa	Gln	Xaa	
65					70					75					80	
Phe	Gly	Ser	Pro	Cys	Ile	Leu	Arg	Leu	Lys	Arg	Arg	Ser	Ala	Arg	Lys	
85					90					95						
Asp	Asp	Gly	Xaa	Thr	His	Phe	Met	Xaa	Trp							
100					105											

<210> 6997

<211> 73

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

&lt;221&gt; SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

&lt;221&gt; SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

$\langle 222 \rangle$  (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$ 

&lt;221&gt; SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$ 

&lt;221&gt; SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids



## 6213

<220>  
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 <222> (66)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (71)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6997  
 Arg Asn Ser Phe Ala Trp Leu Arg Pro His Gly Leu Leu Xaa Met Phe  
           1                  5                  10                  15  
 Cys Pro Arg Pro Phe Val Ser His Ser Xaa Gln Trp Gly Trp Leu Xaa  
                   20                  25                  30  
 Leu Cys Gln Ala Lys Val Gln Gly Met Glu Val Gln Leu Cys Xaa Lys  
           35                  40                  45  
 Val Glu Pro Xaa Trp Asp Arg Gly Ser Phe Ser Ser Lys Ala Xaa Ala  
           50                  55                  60  
 Trp Xaa Tyr Glu Trp Xaa Xaa Arg Gly  
           65                  70

<210> 6998  
 <211> 115  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (40)

## 6214

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6998

Gly	Thr	Ser	His	Ser	Lys	Pro	Gly	Ser	Thr	Xaa	Thr	Thr	Leu	Ser	Pro
1				5					10					15	

Gly	Ser	Ile	Thr	Thr	Ser	Ser	Phe	Ala	Gln	Xaa	Phe	Thr	Thr	Pro	His
			20					25					30		

Ser	Gln	Pro	Gly	Ser	Ala	Leu	Xaa	Thr	Val	Ser	Pro	Ala	Ser	Thr	Thr
		35					40					45			

Val	Pro	Gly	Leu	Ser	Glu	Glu	Ser	Thr	Thr	Phe	Tyr	Ser	Ser	Pro	Gly
	50					55					60				

Ser	Thr	Glu	Thr	Thr	Ala	Phe	Xaa	His	Ser	Asn	Thr	Ser	Ala	Tyr	Pro
65					70					75					80

Arg	Glu	Asn	Gly	Thr	Gly	Asn	Ser	Met	Met	Cys	Leu	Lys	Ser	Xaa	Arg
				85					90					95	

Lys	Glu	Gly	Thr	Pro	Gly	Ile	Xaa	Pro	Glu	Asp	Gly	His	Leu	Gly	Arg
			100					105					110		

Thr	Arg	Ile
		115

<210> 6999

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

## 6215

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<220>  
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<222> (16)  
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<220>  
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<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<220>  
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<220>  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (69)

## 6216

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6999

Ala	Arg	Pro	Arg	Pro	Ile	Arg	His	Ser	Xaa	His	Phe	Thr	Arg	Xaa	Xaa
1				5					10					15	
Phe	His	Lys	His	Ile	Xaa	Ile	Leu	Gln	Gln	His	Phe	Xaa	Met	Val	Pro
			20				25						30		
Ala	Val	Glu	Xaa	Ser	Asn	Val	Lys	Xaa	Xaa	Xaa	Pro	Pro	Ser	His	Ile
		35					40						45		
Ala	Ser	Ser	Thr	His	Phe	Phe	Gly	Lys	Leu	Ser	Ser	Ala	Cys	Asn	Met
	50					55					60				
Leu	Pro	Lys	Xaa	Xaa	Arg	Lys	Gln	His	Trp	Arg	Pro	Val	Phe	Arg	Asn
65					70					75					80

<210> 7000

<211> 77

<212> PRT

<213> Homo sapiens

<400> 7000

Leu	Leu	Asp	Ala	Lys	Ser	Val	Phe	Thr	Lys	Thr	Ile	Gln	Met	Leu	Leu
1				5					10					15	
Asn	Tyr	Gln	Ile	Ser	Phe	Pro	Thr	Phe	Gly	Lys	Gly	Val	Ala	Leu	Ile
			20					25					30		
Pro	Tyr	Trp	Asp	Tyr	Lys	Leu	Val	Met	Val	Phe	Gly	Lys	Gln	Phe	Gly
		35					40					45			
Asn	Met	His	Gln	Lys	Leu	Leu	Thr	Phe	Phe	Ile	His	Leu	Trp	Pro	Ser
	50					55					60				
Asn	Phe	Ile	Ser	Glu	His	Leu	Phe	Tyr	Gly	Asn	Tyr	Ser			
65					70					75					

<210> 7001

<211> 33

<212> PRT

<213> Homo sapiens

## 6217

<220>  
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<220>  
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (26)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7001  
 Thr Val Asp Tyr Tyr Ser Gln Arg Glu Lys Ser His Leu Thr Xaa Ser  
           1                  5                  10                  15  
 Leu Phe Lys Leu Ser Xaa Pro Glu Arg Xaa Lys Tyr Gln Arg Arg Xaa  
                   20                  25                  30

Asn

<210> 7002  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (6)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (9)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring L-amino acids

## 6218

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7002

Phe Glu Asn Val Leu Xaa Leu His Xaa Cys Leu Asp Asp Leu Leu Lys  
1 5 10 15

Lys Gln His Ser Ala Pro Thr Lys Leu Ile Ser Ser Cys Pro Ala Ser  
20 25 30

Ala Ser Val Ser Ile Pro Ala Leu Gly Phe Xaa Xaa Cys Leu Pro Ile  
35 40 45

Ser His Asn Gly Ser Phe  
50

&lt;210&gt; 7003

&lt;211&gt; 67

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (57)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7003

His Glu Val Leu Val His Ser His His Leu Pro Ser Val Pro Gln Arg  
1 5 10 15

Phe Thr Leu Ser Leu Met Trp Asp Leu Phe Pro Val Arg Cys His Tyr  
20 25 30

Phe Pro Phe Pro Trp Phe Thr Leu Pro His Ile Gly Lys Ala Leu Pro  
35 40 45

## 6219

Ile Ala Phe Gly Lys Gly Lys Met Xaa Lys Xaa Asn Val Leu Xaa Ser  
           50                                  55                                  60

Leu Cys Val  
       65

<210> 7004  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (50)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7004  
 Arg Val Pro Asn Pro Arg His Thr Asp Phe Glu Phe Tyr Leu Thr Gly  
       1                                  5                                  10                                  15

Thr Asp Met Leu Arg Leu Ser Asp Trp Glu Ser His Leu Trp Leu Leu  
                                   20                                  25                                  30

Pro Cys Xaa Xaa Pro Asn Ser Ser Arg Leu Val Xaa Lys Xaa Xaa Lys

## 6220

35

40

45

Glu Xaa Ser Leu Gly Leu Gly  
50 55

&lt;210&gt; 7005

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids



## 6221

<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7005  
Ile Phe Val Val Ala Phe Xaa Leu Gly Leu Gln Asn Lys Ala Asp Phe  
1 5 10 15  
Xaa Phe Gln Xaa Val Pro Phe Leu Pro Xaa Gln Val Tyr Tyr Xaa Xaa  
20 25 30  
Val Leu His Xaa Val Phe Lys Lys Gln Pro Thr Ile Xaa Thr His Val  
35 40 45  
Thr Xaa Leu Cys Leu Pro Gln Phe Phe Gly Ser Leu Ala Thr Leu Val  
50 55 60  
Xaa His Val Gly Leu Asp  
65 70

<210> 7006  
<211> 62  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (53)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 6222

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7006

Gly	Gly	Thr	Asp	Ser	Leu	Val	Gly	Gly	Trp	Gly	His	Glu	Thr	Arg	Xaa
1				5					10					15	

Ala	Leu	Arg	Lys	Pro	His	Cys	Arg	Gln	Thr	Phe	Leu	Asp	Glu	Glu	Ala
			20					25					30		

Leu	Pro	Arg	Val	Pro	Arg	Phe	Xaa	Phe	Phe	Val	Gly	Ile	Gly	Asn	Glu
		35					40						45		

Cys	Phe	Pro	Ser	Xaa	Ala	Ser	Phe	Cys	Thr	Phe	Thr	Val	Xaa
	50					55					60		

&lt;210&gt; 7007

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7007

Ile	Leu	Phe	Thr	Thr	Gly	Met	Cys	Gly	Ile	Cys	Asn	Tyr	Ile	Xaa	Phe
1				5					10					15	

**6223**

Xaa Gly Pro Ile Xaa Gly Leu Ser Phe Leu Glu Leu Ile Ile Leu Pro  
                   20                  25                  30

Tyr Tyr Xaa Ile Cys Xaa Ser Gly Ser Ile  
           35                  40

<210> 7008

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7008

Gly Thr Cys Val Leu Arg Leu Cys Leu His Cys Leu Leu Ser Pro Thr  
       1                  5                  10                  15

Lys Leu Ser Ser Pro Pro Pro Val Thr Leu Glu Leu Cys Phe Ile Phe  
                   20                  25                  30

Lys Glu Glu Arg Glu Xaa Gly Glu Val Thr Ser Xaa Thr Leu Gln His  
           35                  40                  45

Gly His Gln Phe Phe Trp Asn Asn Leu Gly Gly Ser Thr Cys Phe Trp  
       50                  55                  60

Glu Lys Cys Phe Gly Lys Arg Phe Trp Gly Gly  
       65                  70                  75

<210> 7009

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6224

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7009

Leu	Gly	Asn	Phe	Leu	Asn	Ser	Lys	Lys	Ile	Phe	Ser	Cys	Ser	Leu	Ser
1				5					10					15	

His	Tyr	Ile	Trp	Phe	Ser	Ala	Tyr	Lys	Ser	Lys	Arg	Ile	Ile	Cys	His
			20					25					30		

Ser	Phe	Phe	Lys	Xaa	Val	Phe	Phe	Pro	Asn	Leu	Xaa	Xaa	Asn	Thr	Asn
		35					40					45			

Ile	Ser	Ser	Asn	Gly	Leu	Pro	Xaa	Ser	Ala	Gly
	50					55				

&lt;210&gt; 7010

&lt;211&gt; 86

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7010

Gly	Thr	Ser	Thr	Ala	Pro	Ser	Gln	Phe	Tyr	Tyr	Thr	Ala	Val	Val	Ser
1				5					10					15	

Ala	Tyr	Lys	Phe	Xaa	Ser	Ser	Cys	Pro	Phe	Trp	Pro	Thr	Leu	Ala	Leu
			20					25					30		

Ile	Ile	Ile	Leu	Lys	Pro	Gly	Ser	Ser	Ile	Tyr	His	Ala	Phe	Ile	Leu
			35				40					45			

## 6225

Glu Ile Asn Leu Gly Ser Asp Thr Gln Val Arg Ile Ile Tyr Gly Gly  
50 55 60  
Trp Arg Gln Val Ser Ser Asn Gly Thr Val Lys Gly Glu Asp Phe Ser  
65 70 75 80  
Thr Thr Leu Trp Arg Gly  
85

<210> 7011

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6226

&lt;400&gt; 7011

Gly Xaa Gly Arg Pro Asp Pro Ser Glu Xaa Gln Thr Thr Ala Lys His  
 1 5 10 15

Gly Gln Glu Arg Lys Cys Ser Gln Ala Tyr Ala Thr Ala Trp Trp Asp  
 20 25 30

Leu Thr Val Gly Ser Ser Ser Arg Pro His Leu Pro Leu Pro Thr Thr  
 35 40 45

Thr Lys Asn Ser Arg Gln Phe Leu Pro Gly Asn Asn Val Arg Ser Gln  
 50 55 60

Ser Pro Glu Thr Gly Met Gly Phe Leu Glu Ser Gly Leu Asp Cys Leu  
 65 70 75 80

Leu Trp Lys Thr Leu Pro Arg Ala Pro Xaa Cys Glu Ala Gln Ala Asp  
 85 90 95

Gln Asp Pro Ser Asn Trp Xaa Pro Xaa Lys Leu Leu Xaa Pro Xaa Leu  
 100 105 110

Val Lys Ile  
 115

&lt;210&gt; 7012

&lt;211&gt; 98

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (79)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (92)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (94)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6227

&lt;400&gt; 7012

Lys Ile Glu Gln Gln Thr Cys Leu Pro Asp Phe Leu Lys His Thr Lys  
 1 5 10 15

Ser Tyr Gly Val Cys Ala Ile Ser Gly Met Gln Gly Ile Leu Asp Met  
 20 25 30

Pro Gly Val Phe Gly Cys Leu Thr Pro Leu Glu Arg Gly Asn Gly Leu  
 35 40 45

Cys Xaa Cys Thr Val Gly Ser Trp Ala Lys Asp Phe Asp Leu Cys Val  
 50 55 60

Pro Ile Leu Gly Gln Gly Lys Val Pro Val Ser Thr Cys Arg Xaa Leu  
 65 70 75 80

Gly Ile Asn Gln Arg Val Gly Arg Glu Asn Asn Xaa Ser Xaa Cys Leu  
 85 90 95

Asp Thr

&lt;210&gt; 7013

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7013

His Glu Leu Pro Ser Lys Ile Ser Phe Glu Ile Ser Ile Leu Leu Leu  
 1 5 10 15

Ser Lys Lys Lys Xaa Xaa Phe Xaa  
 20

## 6228

<210> 7014

<211> 27

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7014

Gly Arg Ala Thr Met Asn Ser Xaa Leu Asn Xaa Leu Gly Phe Pro Ile

1

5

10

15

Asn Ser Xaa Lys Asp Ile Xaa Xaa Phe Lys Lys

20

25

<210> 7015

<211> 18

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids



## 6229

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7015  
Arg Gly Xaa Ala Ser Met Val Asn Xaa His Pro Leu Ser Xaa Asn Phe  
1 5 10 15

Trp Asn

<210> 7016  
<211> 66  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 6230

<221> SITE  
<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7016  
Ile Val Gln Asn Thr Leu Ser Asn Lys Asn Arg Val Tyr Ile Leu Leu  
1 5 10 15  
Lys Leu Ile Gln Asn Ile Ser Pro Gly Xaa Xaa Thr Phe Trp Xaa Leu  
20 25 30  
Gly Tyr Thr Leu Thr Asn Phe Lys Pro Val Lys Ser Xaa Gln Ser Leu  
35 40 45  
Phe Ser Xaa Xaa Met Xaa Phe Asn Leu Lys Phe Thr Thr Xaa Arg Leu  
50 55 60  
Pro Arg  
65

<210> 7017  
<211> 46  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 6231

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (44)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7017  
Gln Ala Phe Gly Lys Ser Leu Gln Ile Leu Xaa Pro Pro Phe Tyr Lys  
1 5 10 15  
Glu Arg Ala Gly Leu Val Ile Cys Pro Xaa Pro Phe Pro Gly Xaa Ile  
20 25 30  
Xaa Thr Ser Thr Val Tyr Cys Xaa Val Leu Ser Xaa Phe Gln  
35 40 45

<210> 7018  
<211> 33  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (29)

## 6232

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7018

Gly	Asp	Thr	Asp	Thr	Xaa	Ile	Tyr	Cys	Ile	Xaa	Gly	Asn	Arg	Gly	Xaa
1				5					10					15	

Phe	Pro	Leu	Arg	Leu	Pro	Gly	Asn	Arg	Phe	Leu	Gly	Xaa	Met	Val	Pro
			20					25						30	

Glu

<210> 7019

<211> 28

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7019

Phe	Pro	Val	His	Arg	Pro	His	Arg	Gly	His	Xaa	Xaa	Trp	Pro	Gly	Cys
1				5					10					15	

Pro	Ser	Ser	Cys	Gly	Asp	Arg	Ser	Cys	Gly	Arg	Trp
			20					25			

<210> 7020

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

## 6233

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7020

Gly	Arg	Xaa	Gly	Thr	Ser	Xaa	Gly	Val	Pro	Ser	Lys	Glu	Ala	Thr	Val
1				5				10						15	

Pro	Asp	Leu	Lys	Xaa	Lys	Xaa	Xaa	Asp	Gln	Ile	Met	Val	Thr	Val
		20					25					30		

<210> 7021

<211> 25

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6234

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7021

Gly	Xaa	Gly	Glu	Ala	Ile	Asn	Xaa	Leu	Xaa	Arg	Phe	Asp	His	Ile	Tyr
1				5				10						15	

Thr	Lys	Xaa	Leu	Xaa	Leu	Glu	Ile	Pro
			20				25	

&lt;210&gt; 7022

&lt;211&gt; 74

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7022

Val	Val	Cys	Xaa	Cys	Xaa	Phe	Leu	Pro	Val	Ser	Cys	Leu	Ser	Val	Asp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 6235

1	5	10	15
Ile Lys Gly Val Leu Val Ser Leu Lys Met Thr Ile Val Ser Ser Val			
20	25	30	
Ser Xaa Phe His Val Asn Leu Gln Leu Gly Thr Pro Leu Gln Lys Arg			
35	40	45	
Lys Ser Xaa Gly Arg Met Arg Glu Arg Lys Glu Xaa Lys Xaa Asp Cys			
50	55	60	
Ile Gly Pro Lys Gly Phe Pro Leu Ile Arg			
65	70		

&lt;210&gt; 7023

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7023

Val Asp Leu Arg Gly Val Lys Glu Ile Asn Lys Gly Ile Phe Val Pro
1 5 10 15

Xaa Phe Pro Trp Lys Gly Ser Gln Met Ala Ile Gly Glu Met Xaa Gly

## 6236

20

25

30

Met Asp Thr Xaa Pro Arg Ala Ala Ser Xaa Trp Xaa  
35 40

&lt;210&gt; 7024

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7024

Pro Val Leu Met Xaa Leu Lys Val Gly Asp Gln Xaa Pro Gly Leu Asn  
1 5 10 15

Val

&lt;210&gt; 7025

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids



## 6237

<220>  
<221> SITE  
<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7025  
Cys Trp Gly Ser Lys Trp Gly Asp Gly Glu Leu Gly Ser Pro Xaa Ser  
1 5 10 15

Lys Gly Val Phe Leu Glu Thr Xaa Met Phe Trp Xaa Gln Arg Ala Xaa  
20 25 30

Xaa Gly

<210> 7026  
<211> 51  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7026  
Gly Arg Asn Leu Ile Lys Tyr Leu Xaa Val Arg Glu Ala Gly Arg Thr  
1 5 10 15

**6238**

Leu Glu Ser Tyr Ile Ser Ser Glu Tyr Gln Met Xaa Xaa Leu Arg Met  
                   20                  25                  30

Ser His Gln Ile Leu Cys Xaa Lys Tyr Ile Gly Ser Tyr Leu Thr His  
           35                  40                  45

Tyr Ile Gly  
       50

&lt;210&gt; 7027

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7027

Cys Leu Xaa Leu Arg Thr Leu Arg Ala Gly Tyr Gly Arg Glu Lys Lys  
       1                  5                  10                  15

Asn Xaa His Lys Asn Glu Ser Tyr Ser Lys Asn Thr Gly Pro Lys Lys  
           20                  25                  30

Ser Phe Tyr Leu Lys Lys Leu Lys Cys Leu Ser His Tyr Lys Phe Leu  
           35                  40                  45

Gly Leu Xaa Phe Phe Pro  
       50

&lt;210&gt; 7028

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

## 6239

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (20)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7028  
Leu Arg Leu Val Ile Asn Pro Trp Xaa Leu Phe Ala Thr Glu Asn Xaa  
1 5 10 15

Leu Val Leu Xaa Thr Leu Val Phe Ser Xaa Xaa Pro Trp Ile Thr Trp  
20 25 30

Lys

<210> 7029  
<211> 78  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 6240

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (53)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (69)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7029  
Ala Glu Val Phe Xaa Thr Ala Ser Asp Lys Lys Ile Val Ser Leu Trp  
1 5 10 15  
Tyr Thr Pro Lys Ser Ser Ala Phe Lys Glu Ser Gln Thr Ile Thr Tyr  
20 25 30  
Leu Ser Pro Leu Leu Phe Pro Pro Xaa Gln Ala Gly Phe Ile Xaa Val  
35 40 45  
Tyr Leu Gly Phe Xaa Ser Ile His Arg Gly Thr Asp Ser Val Leu Ser  
50 55 60  
Xaa Ile Leu Lys Xaa Tyr Trp Phe Ile Ile Ala His Phe Tyr  
65 70 75

<210> 7030  
<211> 67  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 6241

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7030

Thr	Gly	Ser	Phe	Leu	Glu	Trp	Leu	Leu	Xaa	Val	Gly	Ala	Glu	Ala	Arg
1				5					10					15	

Pro	Gly	His	Pro	Ser	Ala	Trp	Asp	Thr	Pro	Arg	Arg	Arg	Gly	Arg	Phe
			20					25					30		

Leu	Glu	Val	Gly	Gly	Leu	Pro	Leu	Ala	Leu	Pro	Ser	Leu	Xaa	Leu	His
		35					40					45			

Thr	Gly	Gly	Gly	Leu	Glu	Xaa	Xaa	Thr	Gly	Xaa	Leu	Ile	Val	Lys	Thr
	50					55					60				

Phe	Leu	Phe
65		

&lt;210&gt; 7031

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6242

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7031  
Val Pro Xaa Val Xaa Ile Pro Thr Leu Phe His Ile Phe Xaa Lys Cys  
1 5 10 15  
Gly Val Phe Phe Leu Xaa Ala Trp Phe  
20 25

<210> 7032  
<211> 32  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7032  
Gly Thr Gly Arg Glu Arg Thr Ser Leu Gln Phe Phe Phe Phe Phe  
1 5 10 15  
Phe Lys Asn Trp Gly Gly Xaa Leu Gly Phe Xaa Lys Gly Xaa Gly Pro  
20 25 30

**6243**

&lt;210&gt; 7033

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7033

Ala Asp Leu Ser Pro Arg Xaa Leu Pro Tyr Tyr Gly Arg Glu Xaa Gly

1

5

10

15

Leu Xaa Leu Leu Xaa Phe Ser Gly Lys Glu Ser Leu Gln Xaa Ser Met

20

25

30

Ser Leu Gly Ser Phe Arg Arg Arg Xaa Glu Pro Arg Leu Ala Gly Arg

35

40

45

Pro

&lt;210&gt; 7034

## 6244

<211> 17  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7034  
Gly Thr Arg Phe Phe Phe Phe Phe Phe Xaa Xaa Asn Xaa Xaa Leu Phe  
1 5 10 15

Xaa

<210> 7035  
<211> 23  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)



## 6245

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7035

Ala	Glu	Leu	Glu	Phe	Phe	Phe	Phe	Phe	Phe	Gln	Arg	Gly	Gly	Glu	Val
1				5						10				15	

Xaa	Arg	Gly	Leu	Ser	Xaa	Xaa
			20			

<210> 7036

<211> 75

<212> PRT

<213> Homo sapiens

<400> 7036

His	Glu	Arg	His	Glu	Lys	Leu	Arg	Asn	Tyr	Thr	Lys	His	Ser	Tyr	Glu
1				5					10					15	

Ile	Ser	Gly	His	Gln	Asp	Asn	Gln	Lys	Ile	Ser	Gln	Ser	Leu	Pro	Lys
			20					25					30		

Arg	Glu	Lys	Lys	Ser	His	Ile	Gln	Arg	Ile	Arg	Asn	Leu	Asn	Gly	Ala
		35					40					45			

Glu	Ile	Leu	Lys	Ala	Asn	Phe	Glu	Val	Arg	Ala	Gln	Arg	Lys	Gln	Glu
	50					55					60				

Leu	Leu	Asn	Ser	Glu	Gly	Lys	Gln	Phe	Leu	Ser
65					70					75

<210> 7037

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

## 6246

<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (48)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (60)

## 6247

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7037

Xaa	Ser	Gln	Ser	Lys	Xaa	Xaa	Pro	Gly	Phe	Arg	Ser	Tyr	Pro	Xaa	Ser
1				5					10					15	

Gly	Tyr	Met	Val	Leu	Val	Ser	Ile	Phe	Cys	Xaa	Phe	Xaa	Tyr	Phe	Gln
			20					25					30		

Xaa	Ser	Leu	Xaa	Trp	Tyr	Tyr	Met	Val	Lys	Xaa	Lys	Leu	Phe	Phe	Xaa
		35					40					45			

Pro	Asp	Gln	Gly	Cys	Xaa	Ser	Ser	Pro	Cys	Leu	Xaa	Ser	Val	Pro	Lys
	50					55					60				

Xaa	Val	Phe	Trp	Gln	His	Ser	Leu	Val	Ala	Ala	Gly	Val	Val	Lys	Phe
65					70					75					80

Gly	Pro	Glu	Lys	Ala	Xaa	Xaa	Lys
				85			

<210> 7038

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7038

Gly	Arg	Ala	Leu	Phe	Tyr	Tyr	Ser	Arg	Phe	Asn	Asp	Asn	Arg	Leu	Leu
1				5					10					15	

## 6248

Cys Leu Ser Phe Asp Ile Leu Gln Ile Ser Lys Cys Ile Leu Leu His  
20 25 30  
Leu Glu Gly Asn Phe Val Val Leu Arg Lys Cys Xaa Gln Lys Met Lys  
35 40 45

<210> 7039

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6249

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (89)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (90)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (93)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (94)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7039

Glu	Asp	Leu	Tyr	Tyr	Lys	Ile	His	Val	Phe	Thr	Ser	Val	His	Gly	Thr
1				5					10					15	

Phe	Ser	Lys	Ile	Asp	His	Met	Ile	Gly	His	Lys	Thr	Ser	Leu	Ser	Lys
			20					25					30		

Phe	Lys	Lys	Ile	Lys	Ile	Ile	Leu	Ser	Thr	Leu	Ser	Glu	His	Ile	Gly
		35					40					45			

Ile	Lys	Ile	Arg	Lys	Gln	Leu	Xaa	Lys	Gly	Thr	Leu	Gln	Asn	His	Lys
	50					55					60				

Ile	Cys	Ala	Xaa	Xaa	Thr	His	Xaa	Leu	Gln	Ile	Lys	Gly	Leu	Xaa	Xaa
65					70					75					80

Val	Leu	Pro	Ala	Xaa	Gly	Lys	Gln	Xaa	Xaa	Ala	Gly	Xaa	Xaa	Lys	Pro
				85					90					95	

Gly Phe Cys

&lt;210&gt; 7040

&lt;211&gt; 63

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

## 6250

&lt;221&gt; SITE

&lt;222&gt; (47)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7040

Leu	Leu	Ser	Pro	Leu	Leu	Leu	Trp	Lys	Val	Lys	Phe	Leu	Asp	Pro	Arg
1				5				10					15		

Phe	Asn	Phe	Lys	Ile	Val	Asn	Leu	Ile	Met	Ser	Gly	Gly	Asn	Leu	Leu
			20				25						30		

Lys	Lys	Thr	Leu	Cys	Ser	Thr	Ser	Leu	Val	Ala	Leu	Cys	Leu	Xaa	Met
		35					40					45			

Thr	Phe	Arg	Leu	Pro	Val	Gln	Lys	Met	Glu	Asp	Ile	Lys	Leu	Cys
	50					55					60			

&lt;210&gt; 7041

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7041

Gly	Arg	Glu	Lys	Glu	Trp	Asn	His	Val	Lys	Phe	Ser	Val	Xaa	Pro	Xaa
1				5					10				15		

Xaa

&lt;210&gt; 7042

&lt;211&gt; 38

&lt;212&gt; PRT

## 6251

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7042

Xaa Lys Thr Xaa Phe Leu Gly Leu Xaa Leu Cys Ser Leu Leu Gln Asp

1

5

10

15

Leu Leu Cys Ser Val Asn Ile Xaa Cys Trp Val Gln Leu His Ala Pro

20

25

30

Cys Cys Xaa Phe Thr Cys

35

<210> 7043

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

## 6252

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7043

Leu	Pro	Gln	Ala	Gln	Pro	Val	Ser	Arg	Leu	Gln	Leu	Arg	Pro	Leu	Leu
1				5					10					15	

Asn	Ser	Leu	Tyr	Val	Val	Gln	Ser	Glu	Ser	Pro	Ser	Gln	Ser	Thr	Asn
			20					25					30		

Leu	Leu	Xaa	Leu	Leu	Cys	Phe	Lys	Pro	Phe	Xaa	Gly	Ser	Tyr	Phe	Gln
		35					40					45			

Leu	Asp	Glu	Val	Gln	Ala	Cys	Xaa	Arg	Ala	Val	Arg	Val	Thr	Trp	Pro
	50					55					60				

Asp	Pro	Pro	Leu	Ile
	65			

&lt;210&gt; 7044

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7044

Ala	Xaa	Xaa	Ile	Arg	Ala	Ala	Leu	Glu	Leu	Gly	Tyr	Met	Ala	Asn	Ile
1				5					10					15	

Phe	Ser	Lys	Phe	Ser	Glu	Leu	Asn	Leu	Lys	Phe	Gln	Gly	Tyr	Ala	Ile
			20					25					30		

Ser	Lys	Arg	Lys	Ser	Thr	Leu	Ser	Arg	Asn	Ile	Val	Leu	Ala	Asn	Ile
		35					40					45			



## 6253

His Tyr Lys Leu Ser Leu Phe  
           50                          55

<210> 7045

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7045

Ser Arg Xaa Ile Lys Leu Gln Leu Arg Gly Glu Lys Trp Val Thr Pro  
       1                  5                  10                  15

Gly Arg Ile His Leu Gly Trp Pro Ser Gly Arg Thr Glu Phe Thr Lys  
                   20                  25                  30

Leu Thr Xaa Ser Leu Val Xaa Gly Ile Tyr Xaa Gly Arg Xaa  
           35                  40                  45

<210> 7046

<211> 60

<212> PRT

<213> Homo sapiens

## 6254

<220>  
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 <222> (26)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (59)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7046  
 Lys Phe Ser Ala Gly Gln Thr Lys His Ile Cys Glu Leu Asn Val Glu  
     1                    5                    10                    15  
 Val Ile His Leu Lys Pro Leu Leu Gly Xaa Phe Phe Ser Thr Glu Phe  
                     20                    25                    30  
 Ser Gln Leu Ser Arg Val Gly Thr Tyr His Lys Gly Xaa Lys Arg Val  
                     35                    40                    45  
 Val Pro Arg Gly Pro Val Gly Val Gly Val Xaa Pro  
                     50                    55                    60

<210> 7047  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (30)  
 <223> Xaa equals any of the naturally occurring L-amino acids

## 6255

<220>  
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 <222> (31)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (60)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7047  
 Thr Ala Xaa Cys Ala Lys Leu Ala Lys Gly Trp Cys Ile Trp Gln Gly  
     1                    5                    10                    15  
 Ser Ile Leu Ile His Cys His Phe Phe Phe Phe Gly Xaa Xaa Xaa Ser  
                     20                    25                    30

## 6256

Pro His Xaa Xaa Xaa Glu Lys Lys Pro Gly Arg Lys Gly Xaa Glu Xaa  
35 40 45

Glu Xaa Phe Phe Pro His Leu Ala Leu Leu Ser Xaa Glu Arg Leu Gly  
50 55 60

Pro Pro Val Phe Phe Pro Xaa Pro  
65 70

<210> 7048

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7048

Met Gln Gly Val Pro Leu Asn Gly Tyr Trp Cys Asn Pro Gly Gln Lys  
1 5 10 15

Ile Val Val Val Trp Xaa Arg Ile Met Gly Ser Arg Phe Gly Glu Thr  
20 25 30

Gly Xaa Glu Leu Gly Arg Thr Arg Lys  
35 40

<210> 7049

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

**6257**

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7049

Ile	Val	Lys	Leu	Ser	Val	Thr	Val	Tyr	Thr	Ser	Val	Ser	Val	Thr	Leu
1				5					10					15	

Ile	Asn	Val	Ser	Leu	Leu	Leu	Gln	Met	His	Cys	Ile	Gly	Lys	Ala	Arg
			20					25					30		

Gly	Ser	Gly	Ile	His	Arg	Thr	Gly	Ser	Gln	Asn	Ile	Xaa	Gln	Val	Ile
		35					40					45			

Phe	Val	Gln	Gly	Asn	Gly	His	Xaa	Tyr	Gly	Ser	Ser
	50					55					60

&lt;210&gt; 7050

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7050

Xaa	Phe	Phe	Gly	Thr	Arg	Arg	Ser	Pro	Arg	Thr	Glu	Ala	Xaa	Gln	Gly
1				5					10					15	

Lys	Pro	Leu	Xaa	Leu	Pro	Val	Asn	Lys	Asn	Val	Val	Gly	Lys	Met	Gln
			20					25					30		

Thr	Val	Gly	Trp	Ile	His	His	Leu
		35					40

&lt;210&gt; 7051

## 6258

<211> 65  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (33)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (55)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7051  
 Ser Leu Xaa Xaa Leu Ser His Thr His Leu Leu Thr Ile Glu Thr Gly  
     1                    5                    10                    15  
 Asn Leu Xaa Ser Leu Leu Lys Gly Tyr Ser Glu Ala Thr Trp Ala Val  
                     20                    25                    30  
 Xaa Lys Thr Ile His Lys Gln Tyr Gly Met Phe Val Ser Asp Asn Arg  
                     35                    40                    45  
 Leu Gly Tyr Pro Leu Thr Xaa Trp Asn Pro Ala Ser Ala Leu Gly Ser  
     50                    55                    60

Pro  
 65

<210> 7052  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

## 6259

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7052

Lys	Arg	Gln	Val	Leu	His	Gln	Glu	Arg	Arg	Leu	Leu	Arg	Arg	Gly	Glu
1				5				10						15	

Leu	Ser	Gln	Ile	Leu	Leu	Ser	Phe	Tyr	Leu	Thr	Asp	Ile	Phe	Ser	Pro
			20					25					30		

Tyr	Xaa	Pro	Ser	Asn	Leu	Asn	Asn	Ile	Tyr	Trp	Thr	Leu	Leu	Thr	Arg
		35					40					45			

Phe	Thr
	50

&lt;210&gt; 7053

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7053

Ala	Thr	Phe	Ser	His	Val	Asn	Leu	Xaa	Leu	Ser	Ser	Gln	Val	Gln	Leu
1				5				10						15	

Leu	Xaa	Leu	Pro	Val	Gln	Tyr	Leu	Phe	Arg	Thr	Gln	Ser	Ser	Xaa	Gly
			20					25					30		

Val	Asn
-----	-----

## 6260

<210> 7054  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (22)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (30)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7054  
 Ala Glu Pro Ala Trp Pro His Leu Leu Ala His Gly Xaa Gly Cys Pro  
     1                    5                    10                    15  
 Ala Glu Ala Leu Ala Xaa Ser Tyr Trp His Ser Ser Phe Xaa Arg Ile  
                     20                    25                    30  
 Ser Ile Leu Thr Glu Ser Phe Cys Arg Ser Cys Glu Leu Asn Tyr Asn  
           35                    40                    45  
 Ser Lys Leu Trp Lys  
     50

<210> 7055  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (17)  
 <223> Xaa equals any of the naturally occurring L-amino acids



## 6261

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7055  
Trp Lys Trp Ala Glu Asn Xaa Pro Phe Pro Arg Leu Gln Cys Val Arg  
1 5 10 15  
Xaa Lys Glu Arg Gly Lys Lys His Asn Gly Leu Met Val Glu Asp Arg  
20 25 30  
Phe Ile Xaa Lys Lys Thr Asn Pro Arg Xaa Ala Ser Gly  
35 40 45

<210> 7056  
<211> 20  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (20)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7056  
Glu Ala Arg Lys Xaa Pro Leu Lys Ser Leu Phe Lys Ser Thr Gly Gln  
1 5 10 15  
Glu Gly Xaa Xaa  
20

## 6262

&lt;210&gt; 7057

&lt;211&gt; 103

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7057

Ser	His	Cys	Thr	Gln	Pro	Pro	Leu	Phe	Leu	Phe	Lys	Cys	Xaa	Val	Ser
1				5					10					15	

Lys	Pro	Asn	Gln	Pro	Phe	Ser	Thr	Ala	Ser	Ile	Ile	Lys	Ser	Thr	Glu
			20					25					30		

Thr	Asp	Val	Leu	Ser	Leu	Asn	Met	Asn	His	Asp	Ile	Phe	Ser	Tyr	Xaa
		35					40					45			

Xaa	Phe	Asp	Met	Asn	Ser	His	Thr	Tyr	Lys	Asn	Ser	Val	Tyr	Leu	Lys
	50					55					60				

Gly	Phe	Tyr	Glu	Asn	Tyr	Phe	Arg	Phe	Asn	Phe	Ile	Asp	Glu	Ala	Phe
65					70					75					80

Thr	Arg	Lys	Glu	Thr	Leu	Leu	Tyr	Leu	Ala	Asp	Val	Ser	Val	Gln	Phe
				85					90					95	

Arg	Ile	Gln	Gln	Asn	Phe	Leu
						100

&lt;210&gt; 7058

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

## 6263

<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7058  
Arg Val Gln Arg Pro Arg Gly Arg Xaa Cys Leu Ile Phe Ser Asn Asn  
1 5 10 15  
Ser Gln Glu Ala Arg Trp Leu Gln Xaa Val Lys Glu Arg Arg Xaa  
20 25 30

<210> 7059  
<211> 111  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)

## 6264

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6265

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (98)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (99)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7059

Cys	Arg	Leu	Ser	Xaa	Leu	Ala	Cys	Lys	Xaa	Thr	Ser	Arg	Xaa	Val	Xaa
1				5					10					15	

Met	Lys	Leu	Gln	Arg	Ser	Xaa	Gly	Ala	Ala	Pro	Pro	Pro	Ala	Lys	Gly
			20					25					30		

Ser	Xaa	Xaa	Xaa	Lys	Xaa	Ala	Glu	Xaa	Gly	Xaa	Ala	Thr	Ala	Gly	Pro
	35						40					45			

Ser	Arg	Glu	Gln	Leu	Lys	Val	Asp	Leu	Asp	Asp	Leu	Val	Ala	Ala	Xaa
	50					55					60				

Cys	Leu	Tyr	Cys	Gly	Glu	Leu	Met	Ile	Arg	Ser	Ile	Asp	Arg	Pro	Xaa
65					70					75					80

Ile	Asp	Pro	Lys	Arg	Tyr	Glu	Val	Gly	Xaa	Ala	His	Leu	Xaa	Val	Gly
				85					90					95	

Gly	Xaa	Xaa	Pro	Phe	Asn	Gly	Gly	Trp	Ala	Met	Gly	Ser	Met	Asp
			100					105					110	

&lt;210&gt; 7060

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 6266

<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7060  
Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Xaa Ser Xaa  
1 5 10 15  
Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Xaa Thr Gly Lys Thr  
20 25 30  
Gln Gly Ser Pro Xaa  
35

<210> 7061  
<211> 78  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 6267

<220>  
<221> SITE  
<222> (18)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (20)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 6268

<221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (53)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (68)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 7061  
 Thr Thr Ser Trp Gly Xaa Pro Gly Phe Ile Xaa Xaa Ala Xaa Xaa Asn  
 1 5 10 15  
 Pro Xaa Lys Xaa Phe Xaa Gly Phe Xaa Leu Xaa Lys Phe Phe Trp Pro  
 20 25 30  
 Phe Lys Lys Xaa Lys Lys Ile Xaa Asn Xaa Xaa Pro Xaa Phe Leu Lys  
 35 40 45  
 Lys Phe Xaa Pro Xaa Leu Ser Pro Pro Trp Glu Ile Phe Gly Leu Lys  
 50 55 60  
 Phe Asn Leu Xaa Phe Trp Gly Gly Phe Gly Gly Lys Lys Phe  
 65 70 75  
  
 <210> 7062  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (6)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids



## 6269

&lt;400&gt; 7062

Ala Ala Arg Ala Ala Xaa Gly Gly Ala Arg Tyr Pro Xaa Arg Pro Ile  
 1 5 10 15

Met Xaa Arg Ile Thr Ile His Trp  
 20

&lt;210&gt; 7063

&lt;211&gt; 87

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (77)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (82)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7063

Cys Ile Leu Xaa Gly Val Gly Asn Met Val Val Gly Met Ala Gly Ala  
 1 5 10 15

His Thr Thr Lys Leu Leu Gly Pro Asp Pro Ser Gly Asp Thr Ser Leu  
 20 25 30

Val Pro Leu Val Asn Ile Trp Val Gly Leu Leu Leu Thr Val Met Thr  
 35 40 45

Ala Val Ser Val Gly Met Val Leu Ile His Gly Val Thr Val Ile Thr  
 50 55 60

Thr Met Asp Thr Xaa Trp Trp Pro Thr Gly Tyr Cys Xaa Asp Trp Leu  
 65 70 75 80

## 6270

His Xaa Met Asp Val Ile Gly  
85

<210> 7064

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 6271

&lt;221&gt; SITE

&lt;222&gt; (76)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (77)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7064

Pro Leu Xaa Gly Gly Ala Asn Leu Gly Trp Asp Leu Arg Leu Ser Xaa  
1 5 10 15

Gly Ile Val Arg Glu Arg Xaa Phe Phe Pro Lys Ala Cys Phe Leu Asn  
20 25 30

Tyr Pro Leu Gly Val Asn Xaa Thr Ile Xaa Thr Pro Pro His Thr Leu  
35 40 45

Pro Phe Glu Gln Phe Ser Gln Leu His Leu Val Thr Ser Ile Ile Ser  
50 55 60

Pro Leu Pro Lys Phe Arg Phe Xaa Ile Xaa Xaa Xaa Xaa Pro His Pro  
65 70 75 80

Arg Gly Lys Ser

&lt;210&gt; 7065

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 6272

<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7065  
Arg Xaa Asp Val Asn Cys Leu Lys Ser Gly Trp Ala Glu Asp Leu Gly  
1 5 10 15  
Ser Xaa His Ala Ile Trp Asn Thr Asp Xaa Pro Xaa Leu Ala Xaa Val  
20 25 30  
Gly Leu Phe Leu Xaa Phe His Thr Ser Pro Arg Pro Leu Gly Thr Ser  
35 40 45  
Ala Lys Leu  
50

<210> 7066  
<211> 33  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 6273

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7066

Ser	Ile	Ser	Leu	His	Xaa	Trp	Glu	Xaa	Xaa	Arg	Glu	Leu	His	Arg	Gly
1				5					10					15	

Gly	Ala	Phe	Xaa	Leu	Xaa	Leu	Gly	Thr	Ser	Pro	Gly	Cys	Asp	Ala	Asn
			20				25						30		

Ile

&lt;210&gt; 7067

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7067

Arg	His	Glu	Gly	Thr	Arg	Gly	Gly	Pro	Val	Pro	Asn	Ser	Pro	Tyr	Ser
1				5					10					15	

Glu	Ser	Tyr	Tyr	Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Arg	Asp	Trp
			20					25					30		

Glu	Thr	Gln	Lys	Xaa	Xaa
			35		

&lt;210&gt; 7068

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

## 6274

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (15)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (17)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7068  
 Arg His Xaa Gly Thr Thr Gly Gly Pro Val Pro Asn Ser Pro Xaa Ser  
           1                  5                  10                  15  
 Xaa Ser Tyr Tyr Asn Ser Leu Ala Val Val Xaa Gln Arg Arg Asp Trp  
                   20                  25                  30  
 Asp Xaa Pro Xaa Leu Pro  
                   35

<210> 7069  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (36)

## 6275

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7069

Phe	Phe	Tyr	Arg	Ile	Val	Leu	Cys	Leu	His	Phe	Thr	Ser	Leu	Ser	His
1				5					10					15	

Phe	Gln	Cys	Phe	Ala	Val	Trp	Val	Lys	Leu	Ile	Pro	Phe	Gln	Phe	Pro
			20					25					30		

Asn	Pro	Leu	Xaa	Xaa	Thr	Ala	Phe	Thr	Pro	Glu	Lys	Thr	Phe	Lys	Val
		35					40					45			

Ser	Phe	Pro	Leu	Tyr	Xaa	Trp	Glu	Phe	Pro	Glu	Asn	Phe	Pro	Xaa	Asn
	50					55					60				

Pro	Ala	Leu	Gly	Trp	Val	Phe	Pro	Phe	Xaa	Xaa
65					70					75

<210> 7070

<211> 54

<212> PRT

<213> Homo sapiens

<220>

## 6276

<221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (12)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (20)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (26)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (43)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7070  
 Ala Trp Cys Phe Xaa Ala Ser Thr Thr Ser Ser Xaa Leu Ile Leu Ile  
 1 5 10 15  
 Ala Thr Leu Xaa Glu Ile Trp Xaa Pro Xaa Ile Leu Ser Asp Phe Xaa  
 20 25 30  
 Val Thr Gln Leu Leu Asn Cys Gln Ala Arg Xaa Ser Leu Gly Gln Gly  
 35 40 45  
 Asn Leu Xaa Glu Asn Pro  
 50



6277

<210> 7071  
<211> 34  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7071  
Ile Asp Ile Ala Val Ile Lys Lys Ala Ile Asn Gly Gln Val Val Leu  
1 5 10 15  
Ile Ile Ile Cys Phe Xaa Leu Ile Tyr Xaa Cys Xaa Pro Val His Xaa  
20 25 30

Ile Xaa

<210> 7072  
<211> 118  
<212> PRT  
<213> Homo sapiens

<220>

## 6278

<221> SITE  
 <222> (95)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (101)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (104)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (113)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (118)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7072  
 Asn Ile Leu Gly Ile Val Gly Thr Leu Ser Ser Val Phe Leu Lys Pro  
     1                    5                    10                    15  
 Ala Trp Phe Pro Phe Ala Ser Phe Ser Val Val Asn Thr Cys Ser Leu  
                     20                    25                    30  
 Ser Gly Gly Lys Met Gly Ser Ser Ser Tyr Trp Cys Pro Cys Ser Phe  
             35                    40                    45  
 Lys Leu Val Asn Gln Asn Pro Ser Ile Thr Thr Phe Pro Val Ser Trp  
     50                    55                    60  
 Trp Asp Trp Ile Trp Thr Val Leu Tyr Val Cys Leu Leu Leu His Gln  
     65                    70                    75                    80  
 Ser Cys Met Gly Ala Met Ile Phe His Ala Ser Leu Gly Leu Xaa Ser  
                     85                    90                    95  
 Ile Phe His Glu Xaa Pro Leu Xaa Asn Glu Phe Ile Phe Tyr Lys Phe  
             100                    105                    110  
 Xaa Asn Ser Leu Ala Xaa  
     115

## 6279

<210> 7073  
<211> 58  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7073  
His Leu Ser His Lys Ile Tyr Glu Arg Phe Glu Phe Tyr Arg Ser Ile  
1 5 10 15  
Pro Lys Gln Lys Thr Leu Ser Leu Phe Phe Phe Xaa Leu Lys Lys Xaa  
20 25 30  
Asn Asn Tyr Phe Pro Phe Cys Cys Ile Val Pro Ser Lys Xaa Ile Cys  
35 40 45  
Ala Ala Gln Ile Met Gly Trp Val Xaa Pro  
50 55

<210> 7074  
<211> 135  
<212> PRT  
<213> Homo sapiens

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 6280

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<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 6281

<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (48)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (56)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (58)

## 6282

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6283

<220>  
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 <222> (121)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (125)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (127)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (131)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (132)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (135)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7074  
 Xaa Ile Xaa Glu Xaa Xaa Leu Xaa Xaa Phe Leu Ile Xaa Leu Xaa Xaa  
     1                    5                    10                    15  
 Leu Xaa Xaa Arg Xaa Arg Pro Phe Pro Leu Gly Gln Pro Lys Gly Xaa  
                     20                    25                    30  
 Xaa Xaa Xaa Arg Xaa Lys Lys Pro Leu Gly Ser Gln Ile Pro Xaa Xaa  
                     35                    40                    45  
 Lys Asp Leu Xaa Lys Thr Gln Xaa Arg Xaa Gln Xaa Pro Pro Leu Thr  
             50                    55                    60  
 Gln Arg Xaa Lys Phe Gly Gly Gly Ser Lys Arg Gln Phe Xaa Phe Leu  
     65                    70                    75                    80  
 Gly Gln Lys Phe Xaa Gln Phe Leu Gly Asn Gln Lys Lys Xaa Gly Leu  
                     85                    90                    95  
 Lys Ile Xaa Phe Leu Lys Glu Pro Ser Leu Pro Xaa Arg Xaa Ile Phe

## 6284

100	105	110
Lys Xaa Pro His Ile Phe Tyr Xaa Xaa Glu Lys Lys Xaa Thr Xaa Pro		
115	120	125
Leu Gly Xaa Xaa Lys Ser Xaa		
130	135	

<210> 7075

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>



## 6285

<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (63)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (66)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (78)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 6286

&lt;222&gt; (79)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (86)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (90)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (98)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (101)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (102)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7075

Xaa	Pro	Gly	Xaa	Ala	Leu	Cys	Pro	Glu	Xaa	Thr	Gln	Gln	Pro	Xaa	Thr
1				5					10					15	

Xaa	Leu	Asn	Xaa	Val	Gly	Ile	Leu	Gln	Asn	Xaa	Ser	Xaa	Xaa	Lys	Leu
		20						25					30		

Xaa	Lys	Pro	Val	Leu	Lys	Leu	Ile	Pro	Trp	Pro	Gly	Xaa	Ser	Ile	Pro
		35					40					45			

Xaa	Xaa	Pro	Ala	Asn	Asp	Pro	Ser	Xaa	Ile	Ala	Leu	Asn	Asp	Xaa	Pro
		50				55					60				

Phe	Xaa	Thr	Ile	Arg	Gln	Gly	Arg	Glu	Gly	Ser	Lys	Thr	Xaa	Xaa	Pro
65					70					75					80

Ser	Pro	Phe	Thr	Gln	Xaa	Lys	Ile	Gln	Xaa	Trp	Gly	Pro	Pro	Lys	Leu
				85					90					95	

Gly	Xaa	Leu	Gly	Xaa	Xaa	Tyr	Arg	Lys	Val	Thr	Pro	Glu	Leu	Thr	Gly
		100						105					110		

Arg	Gly	Leu	Lys	Ile	Phe
-----	-----	-----	-----	-----	-----

6287

115

&lt;210&gt; 7076

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (40)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7076

Xaa Xaa Asn Asp Gln Leu Leu Ile Leu Ile Thr Met Val Xaa Ile Asp

1

5

10

15

Ser Xaa Val Val Gly Lys Phe Xaa Ile Thr Phe Leu Tyr Lys His Val

20

25

30

## 6288

Glu Ser Xaa Arg Ile Gln Ser Xaa Tyr  
35 40

<210> 7077

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

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<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

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<220>

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<222> (27)

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<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 6289

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (54)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (61)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7077

Pro	Xaa	Leu	Val	Pro	Xaa	Gly	Glu	Ile	Phe	Gly	Asp	Pro	Trp	Gly	Asn
1				5					10					15	

Pro	Xaa	Ala	His	Arg	Xaa	Lys	Ser	Pro	Cys	Xaa	Gly	Gly	Ser	Gln	Pro
			20				25						30		

Trp	Ala	Arg	Lys	Thr	Gly	Pro	Pro	Leu	Xaa	Xaa	Phe	Xaa	Lys	Gly	Arg
			35				40					45			

Arg	Val	Xaa	Ile	Ser	Xaa	Gly	Ile	Ser	Lys	Thr	Leu	Xaa	Arg	Lys	Ser
		50				55					60				

&lt;210&gt; 7078

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6290

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7078

Val	Trp	Gly	Lys	Leu	Thr	Phe	Leu	Xaa	Gln	Asn	Ser	Lys	Ala	Pro	Ser
1				5					10					15	

Xaa	Val	Lys	Gly	Arg	Pro	Phe	Arg	Val	Lys	Xaa	Xaa	Lys	Pro	Arg	Ala
			20					25						30	

Pro Ser

&lt;210&gt; 7079

&lt;211&gt; 66

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7079

Thr	Ala	Ser	Ser	Gln	Ser	Pro	Ser	Asp	Asp	Xaa	Ser	Gly	Phe	Gln	Trp
1				5					10					15	

Xaa	Pro	Arg	Leu	Lys	Leu	Ser	Gly	Phe	Pro	Pro	Thr	Phe	Ser	Pro	Lys
			20					25					30		

Gly	Glu	Ile	Ala	Met	Arg	Phe	Ala	Thr	Ala	Gly	Ser	Pro	Ser	Val	Arg
		35					40					45			

Asn	Leu	Arg	Leu	Cys	Tyr	Pro	Trp	Cys	Leu	Gly	Ala	Val	Phe	Leu	Thr
						50		55				60			

Val	Ile
	65

## 6291

<210> 7080  
<211> 77  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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## 6292

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (70)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE



## 6293

&lt;222&gt; (74)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (76)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7080

Xaa	Lys	His	Xaa	Ile	Xaa	Xaa	Thr	Gln	Xaa	His	Pro	Xaa	Phe	Xaa	Xaa
1				5				10					15		

Leu	Xaa	Val	Leu	Asn	Leu	Gly	Thr	Lys	Xaa	Leu	Pro	Gln	Phe	Phe	Lys
			20					25					30		

Lys	Pro	Xaa	Glu	Leu	Val	Ser	Pro	Ile	Pro	Xaa	Xaa	Asn	Trp	Xaa	Pro
		35					40					45			

Xaa	Arg	Xaa	Lys	Lys	Xaa	Gly	Leu	Gly	Pro	Leu	Gly	Leu	Thr	Leu	Gly
	50					55					60				

Lys	Lys	Gly	Leu	Xaa	Xaa	Ser	Pro	Lys	Xaa	Pro	Xaa	Ile
65					70					75		

&lt;210&gt; 7081

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6294

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7081

Ala	Lys	Lys	Xaa	Xaa	Pro	Phe	Leu	Ala	Xaa	Arg	Gly	Lys	Lys	Asp	Pro
1				5					10					15	

Lys	Lys	Ala	Phe	Lys	Xaa	Asn	Pro	Pro	Pro	Glu	Lys	Thr	Pro	Gly	Thr
		20					25						30		

Xaa	Arg	Leu	Asn	Pro	Leu	Lys	Gly	Asn	Gln	Ala	Phe	Lys	Lys	Arg	Lys
	35						40					45			

Ala	Thr	Asn	Pro	Pro	Val	Pro
	50					55

&lt;210&gt; 7082

&lt;211&gt; 151

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 6295

<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (53)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (73)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 6296

<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (79)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (88)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (106)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (108)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (113)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (117)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (125)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (131)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (149)

## 6297

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7082

Ala	Leu	Xaa	Pro	Cys	Xaa	Ser	Ser	Leu	Gly	Xaa	Pro	Ala	Pro	Arg	Lys
1				5					10					15	
Xaa	Xaa	Trp	Gly	Ser	Phe	Arg	Gly	Ala	Pro	Arg	Lys	Xaa	Lys	Arg	Xaa
			20					25					30		
Pro	Leu	Xaa	Pro	Xaa	Xaa	Leu	Ser	Ser	Pro	His	Gly	Gly	Pro	Phe	Xaa
		35					40					45			
Leu	Lys	Lys	Gly	Xaa	Lys	Leu	Pro	Lys	Pro	Pro	Lys	Pro	Phe	Glu	Xaa
	50					55					60				
Xaa	Arg	Asn	Phe	Pro	Phe	Pro	Pro	Xaa	Xaa	Gly	Gly	Gly	Pro	Xaa	Pro
65					70					75					80
Pro	Asn	Phe	Leu	Xaa	Lys	Lys	Xaa	Phe	Pro	Pro	Leu	Gly	Lys	Asp	Leu
				85					90					95	
Gln	Ile	Gly	Phe	Gly	Gln	Arg	Pro	Leu	Xaa	Ile	Xaa	Asn	Lys	Ala	Thr
			100					105					110		
Xaa	Gly	Gly	Lys	Xaa	Thr	Gln	Lys	Ser	Leu	Gly	Gly	Xaa	Thr	Pro	Arg
		115					120					125			
Pro	Glu	Xaa	Ala	Pro	Thr	Arg	Pro	Leu	Ala	Phe	Gly	Asn	Gln	Leu	Gly
	130					135					140				
Leu	Pro	Asn	Gln	Xaa	Ile	Pro									
145					150										

<210> 7083

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 6298

<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7083  
Arg His Glu Gly Gly Pro Trp Xaa Pro Asn Ser Pro Leu Ser Ala Cys  
1 5 10 15  
Ser Ser Val Ile Tyr His Ile Xaa Asn Leu Gly Pro Gly Xaa Xaa Phe  
20 25 30  
Ser Pro Asn Arg Ser Gly Cys Asn Leu Gly Gly Lys Xaa Pro  
35 40 45

<210> 7084  
<211> 25  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 6299

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7084

Thr	Lys	Gly	Pro	Xaa	Xaa	Lys	Lys	Gly	Gly	Leu	Ser	Leu	Xaa	Lys	Thr
1				5				10					15		

Xaa	Lys	Ile	Trp	Glu	Ile	Lys	Xaa	Phe
		20				25		

&lt;210&gt; 7085

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7085

Lys	Arg	Gly	Pro	Pro	Leu	Gly	Lys	Lys	Leu	Glu	Leu	His	Arg	Gly	Gly
1				5				10						15	

Gly	Arg	Ser	Thr	Thr	Asn	Trp	Ile	Pro	Arg	Ala	Ala	Gly	Xaa	Leu	His
			20				25					30			

Glu	Xaa	Ala	Glu	Trp	Tyr	Val	Trp	Ser	Xaa	Ser	Arg	Xaa	Lys
		35					40					45	

## 6300

<210> 7086  
<211> 25  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7086  
Xaa Arg Xaa Val Gly Leu Gly Xaa Xaa Val Val Ala Arg Arg Trp Pro  
1 5 10 15  
Gly Trp Cys Trp Arg Ala Trp Pro Val  
20 25

<210> 7087  
<211> 116  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE



## 6301

<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
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<220>  
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<220>  
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<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (62)

## 6302

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7087

Leu	Val	Pro	Asn	Ser	Ala	Arg	Xaa	Leu	Tyr	Leu	Met	Lys	Leu	Leu	Gly
1				5				10					15		

Asn	Gly	Val	Phe	Pro	Ser	Val	Thr	Xaa	Xaa	Ile	Ser	Trp	Xaa	His	Pro
		20						25					30		

Ile	Ile	Pro	Xaa	Xaa	Xaa	Thr	Thr	Xaa	Asn	Phe	Pro	Xaa	Gly	Gly	Pro
		35					40					45			

Xaa	Xaa	Arg	Val	Lys	Xaa	Cys	Leu	Ile	Leu	Glu	Gln	Lys	Xaa	Phe	Pro
		50				55					60				

Trp	Gly	Gly	Ser	Asn	Pro	Leu	Trp	Pro	Ile	Met	Phe	Gly	Ser	Arg	Trp
65					70					75					80

Leu	Gly	Pro	Leu	Ala	Trp	Gly	Phe	Leu	Leu	Gly	Asn	Xaa	Ser	Leu	Pro
				85					90					95	

Phe	Xaa	Xaa	Gly	Thr	Xaa	Pro	Cys	Leu	Ala	Ile	Pro	Leu	Phe	Phe	Gln
			100					105					110		

Ser	Ser	Leu	Trp
		115	

<210> 7088

<211> 130

## 6303

<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
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<220>  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (33)

## 6304

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6305

<220>  
<221> SITE  
<222> (70)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (71)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (73)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (80)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (83)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (89)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (97)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (98)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7088  
Xaa Xaa Lys Lys Xaa Gly Lys Lys Xaa Pro Ser Xaa Xaa Leu Phe Pro  
1 5 10 15  
Gln Gly Phe Lys Xaa Val Trp Xaa Pro Lys Lys Gly Phe Asn Pro Xaa  
20 25 30  
Xaa Asn Leu Xaa Pro Phe Pro Xaa Xaa Phe Gly Glu Thr Xaa Xaa Leu  
35 40 45

## 6306

Asn Xaa Gly Lys Ile Xaa Xaa Gly Gly Gly Phe Phe Xaa Ile Trp Xaa  
 50 55 60

Phe Pro Pro Pro Lys Xaa Xaa Leu Xaa Lys Lys Thr Pro Pro Pro Xaa  
 65 70 75 80

Phe Phe Xaa Gly Gly Lys Lys Arg Xaa Phe Pro Lys Lys Asn Phe Gly  
 85 90 95

Xaa Xaa Ile Phe Phe Leu Lys Asn Leu Lys Pro Pro Pro Pro Phe Gly  
 100 105 110

Lys Thr Phe Gly Gly Glu Thr Gln Thr Pro Lys Pro Lys Gly Pro Phe  
 115 120 125

Phe Lys  
 130

<210> 7089  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> (9)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (12)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (15)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (23)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 6307

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7089

Thr Leu Glu Arg Ser Leu Gly Leu Xaa Asn Ile Xaa Lys Ile Xaa Glu  
1 5 10 15

Trp Ser Trp Ala Leu Lys Xaa Thr Tyr Gln Glu His Gln Glu Asn Ser  
20 25 30

Ile Xaa Ile Gln Tyr Lys Ser Tyr Xaa Ser Arg Pro Ile Ile Ser Phe  
35 40 45

Glu Leu Glu Lys Pro Asn Gly Glu Pro Leu Thr Gln Ile Asn Thr Leu  
50 55 60

Ser Phe Ser Gln Leu Gly Ala Arg His Leu  
65 70

&lt;210&gt; 7090

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7090

Val Phe Phe Phe Phe Phe Xaa Phe Glu Lys Cys Asn Ile Phe Pro Xaa  
1 5 10 15

Phe

&lt;210&gt; 7091

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

## 6308

<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (12)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7091  
 Ala Arg Ser Xaa Pro Leu Leu Xaa Glu Gln Met Xaa Ala Xaa Pro Pro  
           1                  5                  10                  15  
 Lys Val Ala Ala Val Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Xaa  
                   20                  25                  30

<210> 7092  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (20)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (21)  
 <223> Xaa equals any of the naturally occurring L-amino acids



## 6309

<220>  
 <221> SITE  
 <222> (23)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (53)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (60)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (68)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (72)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (82)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7092  
 Phe Arg Val Ile Leu Leu Pro Lys Asp Gly Lys Ile Lys Ser Arg Thr  
   1                  5                  10                  15  
 Lys Ser Asn Xaa Xaa Glu Xaa Xaa Ser Ile Ser Ser Thr Tyr Cys Gly  
                   20                  25                  30  
 Ile Thr Ala Thr Lys Ala Leu Asp Gly Lys Ile Ile Leu Ser Cys Phe  
           35                  40                  45  
 Leu Cys Phe Lys Xaa Ser Pro Arg Ser Asn Val Xaa Gly Leu Gly Thr  
       50                  55                  60  
 Gly Ile Ile Xaa Leu Gln Leu Xaa Leu Lys Asn Ser Gly Tyr His Ser  
   65                  70                  75                  80

## 6310

Trp Xaa

<210> 7093

<211> 39

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7093

Xaa Leu Xaa Xaa Ser Pro Ile Ile Lys Gly Thr Xaa Ala Gly Xaa Ser

1

5

10

15

Thr Glu Ser Gly Gly Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu Gln

**6311**

20

25

30

Glu Phe Xaa Thr Ser Xaa Ile  
35

&lt;210&gt; 7094

&lt;211&gt; 71

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 7094

Arg Met Ser Tyr Leu Lys Gly Met Cys His Leu Leu Cys Asn Cys Ile  
1 5 10 15

Pro Thr Arg Ser Tyr Ile Asn Val Leu Arg Gln Gln His Leu Trp Ser  
20 25 30

Lys Cys Gln Ala Ser Arg Gly Thr Leu Val Lys Gly Ser Ser Gly Leu  
35 40 45

Ile Trp Ile Cys Arg Phe Leu His Phe Cys Tyr Lys Ile Tyr Ser Pro  
50 55 60

Leu Lys Leu Pro Leu Val Leu  
65 70

&lt;210&gt; 7095

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 6312

<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (44)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7095  
Cys Ala Xaa Ala Xaa Leu Leu Thr Lys Gly Thr Asn Ser Ala Pro Pro  
1 5 10 15  
Pro Lys Val Ala Ala Xaa Leu Glu Leu Val Asp Pro Pro Gly Cys Arg  
20 25 30  
Ser Ser Pro Arg Ala Ala Lys Gln Xaa Xaa Arg Xaa Cys Xaa Cys Arg  
35 40 45  
Gly Val Tyr His Ala Phe Lys Lys  
50 55

<210> 7096  
<211> 37  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7096  
Ala Ala Arg Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile

## 6313

1	5	10	15
Val Ser Arg Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr			
	20	25	30
Gly Xaa Pro Lys Xaa			
	35		

&lt;210&gt; 7097

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7097

Xaa Pro His Gln Gln Lys Glu Leu Leu Xaa Ser Met Phe Gly Lys Gln
1 5 10 15

Pro Gly Gln Gly Arg Asn Ser Arg Gly Asn Xaa Lys Met Val Leu Phe
20 25 30

## 6314

Pro Asn Pro Xaa Xaa Xaa Pro Asn Val  
                   35                  40

<210> 7098  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7098  
 Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg  
   1                  5                  10                  15

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Xaa Val Thr Gly Lys Pro  
                   20                  25                  30

Lys Xaa Xaa  
           35

<210> 7099  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (2)

## 6315

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7099

Xaa	Xaa	Asn	Ser	Xaa	Gly	Lys	Val	Thr	His	Trp	Trp	Gly	Ala	Leu	Asn
1				5					10					15	

Ser	Gly	Ser	Gly	Gly	Cys	Arg	Ile	Arg	His	Glu	Leu	Xaa	Pro	Xaa	Ser
			20					25					30		

Val	Xaa	Tyr	Xaa	His	Leu	Leu	Pro	Pro	Cys	Xaa
		35					40			

<210> 7100

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

## 6316

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7100

Ala	Arg	Ala	Arg	Tyr	Pro	Ile	Arg	Pro	Ile	Val	Ser	Arg	Ile	Thr	Ile
1				5					10					15	

His	Trp	Pro	Ser	Phe	Tyr	Asn	Val	Val	Thr	Gly	Lys	Asn	Pro	Xaa	Xaa
			20					25						30	

Xaa

&lt;210&gt; 7101

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7101



## 6317

Ala Arg Ala Glu Phe Gly Thr Arg Phe Phe Phe Phe Xaa Gly Xaa  
 1 5 10 15

Leu Phe Xaa Xaa Ile Thr Leu  
 20

<210> 7102

<211> 27

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7102

Leu Phe Ile Xaa Arg Asp Xaa Gly Ala His Asn Cys Xaa Val Asp Ile  
 1 5 10 15

Asp Leu Xaa Cys Glu Asn Ile Ser Thr Leu Glu  
 20 25

<210> 7103

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6318

<220>  
 <221> SITE  
 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (79)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7103  
 Leu Leu Leu Leu Cys Asn Ala Xaa Arg His Xaa Pro Trp Asp His Val  
 1 5 10 15  
 Ser Phe Asn Lys His Ile Gln Xaa Ala Leu Xaa Glu Leu Met Ala Ser  
 20 25 30  
 Lys Ala Gln Xaa Xaa Cys Phe Lys His Ser Ala Ile Ser Xaa His His  
 35 40 45

## 6319

Leu Leu Ala Ser Ile Cys Ser Val Gly Phe Leu Pro Ser Ser Leu Met  
50 55 60  
Thr Gly Leu Tyr Xaa Lys Lys Leu Pro Pro Glu Thr Tyr Leu Xaa Leu  
65 70 75 80  
Ser Leu Leu Cys Leu  
85

&lt;210&gt; 7104

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7104

Arg Ser Leu Phe His Val Gly Lys Leu Leu Ala Ile Ser Val Ser Cys  
1 5 10 15  
Val Tyr Ala Tyr Val Thr Glu Cys Leu Lys Phe Leu Gln Lys Leu Ser  
20 25 30  
Lys Gln Lys His Thr Glu Val His Leu Leu Gly Glu Asp Ile Val Gly  
35 40 45  
Leu Ile Ile Tyr Pro Gly Thr Leu Arg Asn Glu Met Glu Ala Gly Asn  
50 55 60  
Xaa Asp Gly Met Gln Ile  
65 70

&lt;210&gt; 7105

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 6320

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7105

Ala	Ala	Arg	Ala	Ala	Arg	Gly	Gly	Ala	Arg	Tyr	Pro	Ile	Arg	Pro	Ile
1				5				10					15		

Val	Ser	Arg	Ile	Thr	Ile	His	Trp	Pro	Ser	Phe	Tyr	Asn	Val	Val	Thr
			20					25					30		

Gly	Lys	Xaa	Lys	Xaa
			35	

&lt;210&gt; 7106

&lt;211&gt; 94

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (76)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (81)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 6321

&lt;221&gt; SITE

&lt;222&gt; (85)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (88)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7106

Ala	Pro	Pro	Cys	Gly	His	His	Pro	Cys	Arg	Ile	Ile	Cys	Glu	Asn	Asn
1				5					10					15	

Pro	Xaa	Pro	Arg	His	Xaa	Gly	Gln	Leu	Ser	Phe	Val	Ala	Leu	Glu	Ile
			20				25						30		

Xaa	Gly	Val	Pro	Pro	Leu	Asp	Pro	Arg	Ala	His	Ser	Pro	Ser	Thr	Thr
		35				40					45				

Xaa	Val	Ser	Ala	Ala	His	Gln	Ile	Val	Pro	Thr	Lys	Lys	Met	Leu	Cys
	50					55					60				

Glu	Pro	Ile	Cys	Val	Ala	Asn	Arg	His	Gly	Glu	Xaa	Ala	Asp	Phe	Gln
65					70					75					80

Xaa	Arg	Leu	Pro	Xaa	Val	Thr	Xaa	Lys	Pro	Glu	Leu	Gly	Ser
				85				90					

&lt;210&gt; 7107

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7107

## 6322

Gly Val Phe Leu Xaa Thr Ser Gly Ser Xaa Gly Leu Asp Glu Cys Gly  
 1 5 10 15

Pro Ser Tyr Gly Xaa Val Pro His Pro Pro Pro Cys Ser Pro Glu Pro  
 20 25 30

Pro

<210> 7108

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7108

Trp Cys Gly Gly Ser Trp Glu Leu Cys Ser Phe Gly Pro Gln Thr Pro  
 1 5 10 15

Pro Glu Ser Ala Val Cys Ala Phe Ile Asp Val Pro Leu Leu Cys His  
 20 25 30

Val Leu Ser Gln Ala Val Ala Ala Ala Cys Ser Ala Leu Phe Phe Ile  
 35 40 45

Leu Glu Pro Asp Glu Leu Leu Thr Val Asp Ser Val Ile Ser Phe Arg  
 50 55 60

Met Pro Ala Pro Cys Pro Cys Ser Xaa Val Phe Ser Val Leu Pro  
 65 70 75

<210> 7109

<211> 27

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

## 6323

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7109

Ile	Ser	Xaa	Leu	Val	Tyr	Val	Asn	Phe	Glu	Arg	Leu	His	Asp	Phe	Leu
1				5					10					15	

Thr	Xaa	Ile	Asp	Leu	Asp	Ala	Val	Glu	Val	Val
			20				25			

&lt;210&gt; 7110

&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7110

Ser	Cys	Arg	Met	Xaa	Leu	Xaa	Leu	Lys	Gly	Thr	Lys	Ala	Gly	Ser	Ser
1				5				10					15		

Thr	Ala	Ser	Gly	Gly	Xaa	Ser	Arg	Thr	Ser	Gly	Ser	Pro	Gly	Leu	Gln
			20				25						30		

Glu	Phe	Xaa	Xaa	Ser	His	Leu	Pro	Val	Ile	Arg
			35				40			

## 6324

&lt;210&gt; 7111

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7111

Lys	Xaa	Asn	Gly	Gly	Leu	Asp	Leu	Asn	Xaa	Val	Xaa	Xaa	Gly	Leu	Gly
1				5				10					15		

Xaa	Ala	Pro	Pro	Lys	Lys	Ser	Phe	Phe	Phe	Ser	Glu	Leu	Xaa	Gly	Ser
			20				25						30		

&lt;210&gt; 7112



## 6325

<211> 69  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (10)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (28)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (30)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (39)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7112  
 Gly His Ser Leu Gly Lys Gly Ala Leu Xaa Phe Gly Ser Cys Gly Lys  
   1                  5                  10                  15  
 Met Ser Pro Pro Glu Arg Glu Ala Ala Leu Asn Xaa Val Xaa Thr Trp  
                   20                  25                  30

## 6326

Ala Val Gly Leu Thr Ser Xaa Gln His Xaa Xaa Lys Gly Xaa Gly Gly  
                   35                  40                  45

Leu Leu Pro Ala Leu Ile Lys Gly Gln Asn Phe Pro Pro Phe Gln Lys  
           50                  55                  60

Xaa Gly Leu Pro Leu  
       65

<210> 7113

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7113

Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg  
       1                  5                  10                  15

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Xaa Xaa  
                   20                  25                  30

Lys Xaa

<210> 7114

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

## 6327

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7114

Val	Phe	Phe	Ser	Phe	Leu	Gln	Leu	Leu	Asp	Asn	Ala	Leu	Pro	Tyr	Gly
1				5					10					15	

Trp	Ala	Gln	Lys	His	Ser	Lys	Phe	Trp	Gly	Ser	Phe	Leu	Ser	Gln	Phe
			20					25					30		

Leu	Val	Glu	Gly	Trp	Gly	Ile	Pro	Val	Leu	Lys	Arg	Ile	Ser	Tyr	Ala
		35					40					45			

Xaa	Ile	Val	Ile	Val	Ile	Leu	Thr	Thr	Arg	Arg	Pro	Ala	Leu	Ile	Ile
	50					55					60				

Leu	Ser	Ser	Phe	Leu	Gln	Met	Phe	His	Leu	Gly	Pro	Xaa
65					70					75		

<210> 7115

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7115

Ala	Ala	Arg	Gly	Gly	Ala	Arg	Tyr	Pro	Ile	Arg	Pro	Ile	Val	Ser	Arg
1					5					10				15	

Ile	Thr	Ile	His	Trp	Pro	Ser	Phe	Tyr	Asn	Val	Val	Thr	Asp	Xaa	Lys
			20					25					30		

<210> 7116

<211> 46

<212> PRT

<213> Homo sapiens

## 6328

&lt;400&gt; 7116

Arg Tyr Tyr Lys Gly Arg Phe Ile Phe Lys Leu Gln Phe Leu Lys Val  
1 5 10 15  
Ile Ile Asp Ser Val Val His Ser Ile Val Ile Asn His Trp Val Ser  
20 25 30  
Ser Val Ile Phe Val Tyr Gln Met Ile Asn Phe Gln Phe Arg  
35 40 45

&lt;210&gt; 7117

&lt;211&gt; 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7117

Ser Leu Ile His Val Arg Val Ser Glu Phe Ile His Leu Ser Glu Phe  
1 5 10 15  
Arg Asn Phe Thr Leu Lys Leu Asn Phe His Tyr Ile Gln Ala Val Val  
20 25 30  
Glu Phe Phe Ser Glu Ser Leu Ile Xaa Phe Leu Ile Xaa Lys Ile Pro  
35 40 45  
Ile Val Ser Ser Ile Asn Ala Leu Ile Lys Tyr Cys Thr  
50 55 60

&lt;210&gt; 7118

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

## 6329

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7118

Ala	Ala	Arg	Gly	Gly	Ala	Arg	Tyr	Pro	Ile	Arg	Pro	Ile	Val	Ser	Arg
1				5				10					15		

Ile	Thr	Ile	His	Trp	Pro	Ser	Phe	Tyr	Asn	Val	Val	Thr	Asp	Xaa	Xaa
			20					25					30		

<210> 7119

<211> 20

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7119

Ala	Arg	Val	Phe	Phe	Phe	Phe	Leu	Gly	Gly	Pro	Lys	Phe	Tyr	Xaa	Leu
1				5				10					15		

Phe	Xaa	Lys	Lys
			20

<210> 7120

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

## 6330

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7120

Leu	Gly	Cys	Ser	Phe	Leu	Ile	Ile	Xaa	Tyr	Ile	Thr	Glu	Asn	Trp	Thr
1				5				10						15	

Phe	Thr	Phe	Ser	Tyr	Leu	Ala	Phe	Pro	Phe	Asn	Pro	Lys	Ile	Ser	Val
			20				25					30			

Phe	Ser	Ser	Xaa	Lys	Arg	Ser	Pro	Phe	Gln	Leu	Trp	Xaa	Gln	Pro	Pro
			35				40					45			

Trp	Xaa	Xaa	Ile	Lys	Leu	Pro	Leu	Leu	Xaa	Phe	Leu	Asn	Ile	Trp	Asn
	50					55					60				

Leu

65

<210> 7121

<211> 58

<212> PRT

<213> Homo sapiens

<220>

## 6331

<221> SITE  
 <222> (6)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (21)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (48)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (50)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (53)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (58)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7121  
 Gly Ser Arg Leu Glu Xaa Asp Leu Gly Arg Arg Gln Ser Leu Thr Pro  
 1 5 10 15  
 Ile Gly Val Arg Xaa Glu Asp Leu Leu His Ser Ser Ser Val Asp Asn  
 20 25 30  
 His Asn Gly Xaa Pro Arg Lys Gly Leu Ser Cys Phe Gly Leu Leu Xaa  
 35 40 45  
 Val Xaa Ala Val Xaa Cys His Ser Gly Xaa  
 50 55

<210> 7122  
 <211> 37

## 6332

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7122

Ala	Ala	Arg	Gly	Gly	Ala	Arg	Tyr	Pro	Ile	Arg	Pro	Ile	Val	Ser	Arg
1				5				10					15		

Ile	Thr	Ile	His	Trp	Pro	Ser	Phe	Tyr	Asn	Val	Val	Thr	Gly	Lys	Pro
			20					25					30		

Asn	Xaa	Xaa	Xaa	Xaa
				35

&lt;210&gt; 7123

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7123

Leu	Ser	Trp	Thr	Glu	Val	Cys	Gln	Ser	Arg	Tyr	Cys	Ile	Thr	Ile	Leu
1				5				10					15		

Leu	Val	Leu	Thr	Val	Phe	Thr	Xaa	Leu	Asn	Gly	Lys	Pro	Thr	Gly	Tyr
				20				25					30		



## 6333

Phe Leu Lys Leu Pro Leu  
35

<210> 7124

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7124

Pro Pro Pro Phe Phe Leu Gly Lys Phe Xaa Tyr Pro Xaa Pro Pro Pro  
1 5 10 15

Phe Xaa Phe Pro Xaa Lys Xaa Lys Phe Phe Xaa Asn Pro Arg Leu Pro

## 6334

20

25

30

Xaa

&lt;210&gt; 7125

&lt;211&gt; 91

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (58)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (67)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (81)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6335

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (90)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7125

Met	Gly	Val	Leu	Val	Thr	Ala	Lys	Arg	Leu	Arg	Ser	Val	Pro	Thr	Pro
1				5					10					15	

Val	Xaa	Phe	Pro	Gly	Arg	Gly	Arg	Leu	Ser	Arg	Arg	Glu	Arg	Lys	Ala
			20					25					30		

Xaa	Xaa	Gly	Xaa	Lys	Val	Met	Arg	Gly	Xaa	Lys	Glu	Asp	Thr	Glu	Thr
		35					40					45			

Leu	Lys	Val	Glu	Pro	Val	Trp	Thr	Gln	Xaa	Lys	Glu	Ser	Leu	Arg	Ile
	50					55					60				

Ser	Met	Xaa	Glu	Lys	Glu	Lys	Lys	Arg	Ile	Ser	Arg	Ile	Val	Leu	His
65					70					75				80	

Xaa	Leu	Leu	Val	Lys	Ala	Pro	Gly	Asn	Xaa	His
				85				90		

&lt;210&gt; 7126

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7126

Glu	Cys	Arg	Pro	Pro	Glu	Asn	Gln	Ala	Glu	Asp	Cys	Gly	Val	Arg	Cys
1				5					10					15	

Pro	Arg	Xaa	Val	Ser	Ala	Ser	Ser	Gly	Ala	Thr	Ser	Lys	Ser	Ser	Ser
			20					25					30		

Met	Asn	Pro	Thr	Glu	Thr	Lys	Ser	Leu	His	Arg	Gly	Lys	Glu	Arg	Asn
		35					40					45			

Glu	Lys	Leu	Ile	Leu	Leu	Met	Glu	Thr	Phe	Ala	Glu	Lys	Asn	Leu	His
	50					55					60				

## 6336

<210> 7127

<211> 23

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7127

Ile	Asn	Ala	Ser	Xaa	Leu	Xaa	Thr	Pro	Xaa	Leu	Ile	Tyr	Xaa	Gly	Leu
1					5				10					15	

Asn	Phe	Cys	Leu	Leu	Cys	Ala
				20		

<210> 7128

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

6337

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7128

Gly	Gly	Ala	Arg	Tyr	Pro	Ile	Arg	Pro	Ile	Val	Ser	Arg	Ile	Thr	Ile
1					5				10					15	

His	Trp	Pro	Ser	Phe	Tyr	Asn	Val	Val	Thr	Gly	Lys	Pro	Lys	Xaa	Xaa
			20					25					30		

Xaa

<210> 7129

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7129

Gly	Thr	Arg	Gly	Gly	Pro	Val	Pro	Asn	Ser	Pro	Tyr	Ser	Glu	Ser	Tyr
1					5				10					15	

Tyr	Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Arg	Asp	Trp	Val	Lys	Pro
			20					25					30		

## 6338

Xaa Xaa Ser Phe Xaa Xaa  
35

<210> 7130

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7130

Ala	Ala	Arg	Gly	Gly	Ala	Arg	Tyr	Pro	Ile	Arg	Pro	Ile	Val	Ser	Arg
1				5				10					15		

Ile	Thr	Ile	His	Trp	Pro	Ser	Phe	Tyr	Asn	Val	Val	Thr	Gly	Xaa	Pro
			20					25					30		

Lys

<210> 7131

<211> 16

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7131

Gly	Lys	Arg	Pro	Thr	Ala	Ser	Ile	Xaa	Thr	Cys	Asn	Xaa	Ser	Cys	Xaa
1				5				10					15		

## 6339

<210> 7132  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (15)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (23)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7132  
 Asn Leu Thr Lys Gly Thr Lys Leu Asn Phe His Arg Gly Gly Xaa Ala  
           1                  5                  10                  15  
 Val Xaa Lys Leu Leu Asp Xaa Pro Gly Leu Gln Gly Ile Pro Glu Gln  
                   20                  25                  30  
 Pro Lys Met Ala Glu Val Gln Val Leu Gly Cys  
                   35                  40

<210> 7133  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7133  
 Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg  
           1                  5                  10                  15

## 6340

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Thr  
                   20                  25                  30

Gln Thr Phe Ser Phe Pro Leu Tyr Xaa Pro Thr  
           35                  40

<210> 7134

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7134

Asn Pro Pro Ser Gly Glu Ile Ser Leu Gly Pro Ser Asn Phe Gln Phe  
   1                  5                  10                  15

Phe Asn Gln Pro Lys Thr Pro Thr Pro Gln Asn Leu Tyr Phe Phe Tyr  
                   20                  25                  30

Phe Lys Asn Pro Phe Lys Xaa Pro Asn Xaa Gly Gly Pro Ile Pro Pro  
           35                  40                  45

Pro Leu Phe Xaa Phe Glu Lys Pro Xaa Gly Gly Gly Pro Xaa Phe Leu  
       50                  55                  60



## 6341

Lys Phe Leu Phe Trp Gly Gly Phe Phe Pro Gly Leu Ser Leu  
65 70 75

<210> 7135

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7135

Thr His Xaa Cys Leu Thr Val Ala Glu Leu Phe Glu Leu Leu Ile Gln  
1 5 10 15

Cys Xaa Leu Xaa Phe Asn Arg Ser Asn Pro Leu Pro Tyr Pro Leu Xaa  
20 25 30

## 6342

Ala His Val Phe Leu Thr Leu Pro Gly Cys Xaa Asn Asn Ser Pro Xaa  
                   35                                  40                                  45

Xaa Trp Ser Phe Pro Gln  
                   50

<210> 7136

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7136

Pro Pro Leu Trp Pro Val Gly Xaa Ser Pro Glu His Cys Ala Val Gly  
           1                                  5                                  10                                  15

Pro Ser Trp Ser Xaa Leu Leu Xaa Gly Thr Val Glu Arg Pro Ser Ser  
                                   20                                  25                                  30

Ser Lys

<210> 7137

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6343

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (48)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (55)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (56)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (58)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (63)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 6344

<221> SITE  
 <222> (66)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (67)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (79)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 7137  
 Leu Xaa Gly Leu Asn Xaa Thr Pro Arg Arg Gly Gly Arg Ser Xaa Ile  
   1                  5                  10                  15  
 Val Asp Pro Pro Gly Cys Xaa Asn Ser Ala Arg Ala Glu Arg Thr Ser  
                   20                  25                  30  
 Leu Cys Tyr Glu Phe Xaa Ser Leu His Xaa Lys Val Lys Phe Ser Xaa  
           35                  40                  45  
 Met Ile Leu Leu Ala Val Xaa Xaa Arg Xaa Ser Val Thr Val Xaa Leu  
       50                  55                  60  
 Thr Xaa Xaa Ser Trp Xaa Thr Ser Ala Arg Ile Leu Ser Pro Xaa Ser  
   65                  70                  75                  80  
  
 Ala Ala

<210> 7138  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> (10)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>

## 6345

<221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (40)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (53)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 7138  
 Gly Gly Gly Arg Leu Gly Gly Arg Gly Xaa Pro Ala Xaa Xaa Leu Lys  
     1                    5                    10                    15  
 Glu Lys Thr Leu Lys Phe Gly Gly Lys Phe Ser Pro Pro Arg Gly Gly  
                     20                    25                    30  
 Ala Trp Ala Lys Gly Gly Lys Xaa Ser Arg Gly Xaa Asn Gly Lys Gly  
                     35                    40                    45  
 Xaa Glu Lys Ile Xaa  
     50  
  
 <210> 7139  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE

## 6346

<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7139  
Xaa Tyr Trp Gly His Ile Gln His Ser Leu Trp Leu Ser Thr Pro Xaa  
1 5 10 15  
Asn Arg His Pro Xaa Ala Gln Glu Leu Met Gly Leu Xaa Leu Arg Leu  
20 25 30  
Tyr Ala Arg Ala Ser Arg  
35

<210> 7140  
<211> 46  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

6347

<221> SITE  
 <222> (21)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 7140  
 Leu Phe Glu Leu Xaa Pro Xaa Trp Ile Lys Thr Gly Ala Pro Pro Pro  
     1                    5                    10                    15  
  
 Xaa Arg Pro Leu Xaa Asn Asn Gly Ser Pro Gly Leu Gln Glu Ile Arg  
                     20                    25                    30  
  
 His Glu Leu Arg Leu Arg Val Ser Pro Leu Arg Xaa Arg Leu  
             35                    40                    45  
  
  
 <210> 7141  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
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 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
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 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (29)  
 <223> Xaa equals any of the naturally occurring L-amino acids

## 6348

&lt;400&gt; 7141

Ser Leu Lys Xaa Ile Thr Xaa Ile Leu Ser Xaa Ser Ile Pro Lys Thr  
 1 5 10 15

Gly Val Arg Ser Pro Lys Gly Ser Thr Pro Xaa Tyr Xaa Leu Leu Ser  
 20 25 30

Thr Thr

&lt;210&gt; 7142

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7142

Gly Gly Gly Xaa Leu Leu Xaa Phe Arg Ala Xaa Gly Gly Xaa Lys Ala  
 1 5 10 15

Gly Leu His Arg Arg Gly Ser Arg Ser Lys Thr Asn Xaa Ser Pro Gly  
 20 25 30

Leu



6349

<210> 7143  
<211> 40  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7143  
Ala Val Ala Xaa Ala Leu Xaa Leu Xaa Asp Pro Xaa Gly Cys Ile Asn  
1 5 10 15  
Ser Ala Arg Ala Asn Val Gln Leu Pro Tyr Gly Ser Ser Leu Asn Pro  
20 25 30  
Gly Ser Ser Asp Thr Ile Xaa Leu  
35 40

<210> 7144  
<211> 54  
<212> PRT  
<213> Homo sapiens

<220>

## 6350

<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7144  
Ala Thr Thr Trp Xaa Ser Phe Gln Arg His Ser Trp Gly Leu Ser Ile  
1 5 10 15  
Gly Leu His Ser Thr Xaa Ile Leu Gln Tyr Arg Thr Phe Asn Gly Ala  
20 25 30  
Val Xaa Val Leu Lys Leu Tyr Phe Ile Ser Lys Ile Xaa Met Val Met  
35 40 45  
His Ile Ser Glu Leu Ser  
50

<210> 7145  
<211> 76  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (60)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 6351

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7145

Ser	Leu	Gly	Asp	Ile	Lys	Val	Pro	Gly	Asn	Leu	Leu	Val	Arg	Glu	Gly
1				5				10					15		

Glu	Arg	Gly	Glu	Ser	Cys	Thr	Glu	Ser	Lys	Leu	Gln	Arg	Phe	Ala	Glu
			20				25					30			

Asp	Ser	Ser	Trp	Ser	Xaa	Gln	His	Ser	Met	Gln	Leu	Met	Phe	Ile	Gly
			35				40					45			

Ala	Ser	Tyr	Leu	Arg	Phe	Arg	Gly	Asn	Tyr	Thr	Xaa	Lys	Asp	Arg	Arg
		50				55					60				

Asn	Ser	Ala	Leu	His	Xaa	His	Arg	Thr	Glu	Arg	Lys
65					70				75		

&lt;210&gt; 7146

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6352

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (60)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7146  
Cys Pro Ser Phe Asn Gly Lys Asn Trp Thr Xaa Arg Xaa Gly Gly Arg  
1 5 10 15  
Ser Arg Ile Val Asp Pro Pro Gly Cys Arg Glu Phe Gly Thr Ser Leu  
20 25 30  
Ser Ser Leu Ser Leu Leu Xaa Gly His Arg Leu Xaa Thr Leu Xaa Trp  
35 40 45  
Gln Ser Leu Thr His Xaa Arg Asp Ala Gln Gly Xaa  
50 55 60

<210> 7147  
<211> 101  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (55)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (73)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 6353

<221> SITE  
 <222> (78)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (80)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (84)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (88)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (97)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7147  
 Leu Arg Ile Arg Phe Cys Pro Val Ala Ser Arg Glu Ser Pro Gly His  
   1                  5                  10                  15  
 Leu Asp Tyr Leu Ile Thr Ile Thr Pro Pro Ile Val Thr Gln Leu His  
                   20                  25                  30  
 Thr Xaa Met Phe Leu Lys Ile Leu Asn Arg Xaa Ser Asn Pro Leu Gly  
           35                  40                  45  
 Asn Arg Leu Ser Thr Lys Xaa Ser Pro Pro Ile Trp Leu Leu Asn Leu  
       50                  55                  60  
 Ala Pro Ser Ser His Phe Thr Tyr Xaa Val Pro Val Pro Xaa Lys Xaa  
   65                  70                  75                  80  
 Arg Met Glu Xaa Pro Ala Leu Xaa Pro Gly Pro Arg Pro Phe Tyr Ile  
                   85                  90                  95  
 Xaa Ala Lys Lys Lys  
           100

<210> 7148  
 <211> 54  
 <212> PRT

## 6354

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7148

Leu	His	Pro	Gln	Val	Glu	Lys	Met	Leu	Pro	Glu	His	Ala	Ala	Ala	Pro
1				5				10						15	

Ile	Ala	Ser	Cys	Leu	Ala	Lys	Thr	Asp	Pro	Gly	Asp	Ser	His	Glu	Thr
			20					25					30		

Thr	Val	Pro	Gly	Cys	Leu	His	Ser	Pro	Cys	Tyr	Val	Leu	Gly	Thr	Glu
		35					40					45			

Thr	Val	Asp	Xaa	Pro	Phe
		50			

<210> 7149

<211> 22

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6355

&lt;400&gt; 7149

Xaa Xaa Val Ala Leu Leu Asn Val Tyr Asp Leu Phe Tyr Xaa Leu Arg  
1 5 10 15

Ser Xaa Met Val Xaa Glu  
20

&lt;210&gt; 7150

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7150

Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg  
1 5 10 15

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Thr Pro  
20 25 30

Lys Xaa

&lt;210&gt; 7151

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (54)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6356

&lt;400&gt; 7151

Ser Ala Arg Val His Ser Glu Tyr Cys Gly Ser Pro Gly Lys Phe Val  
1 5 10 15

His Arg Gly Tyr Cys His Phe Gly Lys Thr Leu Gly Cys Leu Val Arg  
20 25 30

Arg Leu Gln Xaa Ala Glu Gly Gln Thr Thr Lys Gly Cys Phe Arg Val  
35 40 45

Gln Leu Arg Arg Glu Xaa Gly His Gln Lys Lys Glu Pro Asp Trp Trp  
50 55 60

Leu Tyr Leu His Pro Xaa Phe Lys Gln Trp Arg Ser  
65 70 75

&lt;210&gt; 7152

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE



## 6357

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7152

Gln	Thr	Thr	Leu	Phe	Arg	Xaa	Asn	Ala	Pro	Gly	Leu	Thr	Xaa	His	Gly
1				5					10					15	

Ala	Ala	Leu	Xaa	Pro	Phe	Thr	Xaa	Cys	Xaa	Xaa	Thr	Gln	Xaa	Ser	Lys
			20					25					30		

Thr Val

&lt;210&gt; 7153

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7153

Xaa	Thr	Ile	Ala	His	Phe	Phe	Leu	Lys	Gln	Pro	Val	Lys	Gln	Xaa	Leu
1				5					10					15	

Ile	Ser	Asn	Ala	Arg	Leu	Ile	Tyr	Leu	Ser	Phe	Trp	Arg	Trp	Val	Leu
			20					25					30		

Tyr	Ser	Ser	Ser	Ser	Pro	Phe	His	Val	Pro	Pro	Asp	Leu	Leu	Val	Leu
			35				40					45			

Phe Phe Arg Tyr Ser Ile Xaa His Thr Phe Met Leu

## 6358

50

55

60

&lt;210&gt; 7154

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7154

Pro	Ile	Leu	Cys	Gln	Thr	Trp	Ser	Lys	Ser	Leu	Ser	Ser	Gly	Ser	Asn
1				5				10					15		

Thr	Ala	Ala	Met	Leu	Xaa	Leu	Ser	His	Ser	Xaa	Leu	Ala	Arg	Xaa	Glu
			20					25					30		

Glu	Lys	Lys	Lys	Val	Cys	Leu	Ser	Leu	Leu	Lys	Asp	Ser	Ala
		35					40					45	

&lt;210&gt; 7155

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6359

&lt;400&gt; 7155

Xaa Leu Lys Asp Lys Thr Asp Pro Arg Xaa Gly Arg Ser Asn Tyr Gly  
1 5 10 15

Pro Arg Leu Gln Asn Ser Ala Arg Gly  
20 25

&lt;210&gt; 7156

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7156

Ala Ala Arg Xaa Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg  
1 5 10 15

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Ile Pro  
20 25 30

Lys Xaa

&lt;210&gt; 7157

&lt;211&gt; 79

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6360

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (24)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (44)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 6361

<221> SITE  
 <222> (48)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (60)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (72)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (76)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7157  
 Gly Ala Pro Ala Pro Ser Pro Gly Met Arg Ile Leu Gly Tyr Xaa Ile  
           1                  5                  10                  15  
 Leu Xaa Xaa Ser Xaa Ala Thr Xaa Xaa Xaa Gly Ser Gly Glu Gly Xaa  
                   20                  25                  30  
 Thr Trp Asp Leu Xaa Cys Leu Met Xaa Lys Xaa Xaa Asp His Cys Xaa  
                   35                  40                  45  
 Thr Ser Val Leu Leu Lys Met Ser Gly Ile Arg Xaa Arg Asp Cys Asn  
           50                  55                  60  
 Cys Arg Phe Val Thr Asp Thr Xaa Leu Ser Ile Xaa Ser Ile Ser  
           65                  70                  75

<210> 7158  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (6)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

## 6362

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7158  
Trp Gly His Arg Ala Xaa Xaa Asn Gln Xaa Pro Lys Xaa Ile Xaa Xaa  
1 5 10 15  
Thr His Pro Val Pro Xaa Leu  
20

<210> 7159  
<211> 65  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 6363

<221> SITE  
 <222> (54)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (55)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (58)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7159  
 Ala Tyr Lys Lys Glu Lys Glu Gln Ser Gln Glu Arg Thr Xaa Xaa Lys  
           1                  5                  10                  15  
 Cys Phe Gly Thr Ser Leu Phe Leu Asp Phe Glu Leu Ser Asn Trp Phe  
                   20                  25                  30  
 Ser Gln Val Lys Leu Lys Asn Ser Glu Thr Trp Phe Tyr Glu Ser Cys  
           35                  40                  45  
 Ser Tyr Thr Phe Leu Xaa Xaa Gly Pro Xaa Leu Leu Pro Arg Leu Leu  
           50                  55                  60  
 Thr  
       65

<210> 7160  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (33)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7160  
 Leu Val Ser Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Ser Glu Ser  
           1                  5                  10                  15

**6364**

Tyr Tyr Asn Ser Leu Ala Val Val Leu Asn Val Val Thr Gly Thr Xaa  
                   20                  25                  30

Xaa

<210> 7161

<211> 39

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7161

Tyr Xaa Ser Ile Thr Xaa Lys Gly Gln Thr Asp Ser Arg Gly Gly Ala  
   1                  5                  10                  15

Leu Glu Tyr Gly Pro Arg Leu Gln Ile Arg Arg Ala Gly Val Glu Xaa  
                   20                  25                  30

Xaa Leu Xaa Pro Glu Cys His  
                   35

<210> 7162



## 6365

<211> 33  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (31)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (33)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7162  
 Arg His Glu Gly Gly Pro Val Pro Asn Ser Pro Tyr Ser Glu Ser Tyr  
           1                  5                  10                  15  
 Tyr Asn Ser Leu Ala Val Val Leu Asn Val Val Thr Gly Pro Xaa Xaa  
                   20                  25                  30

Xaa

<210> 7163  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (6)  
 <223> Xaa equals any of the naturally occurring L-amino acids

## 6366

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (48)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (55)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (64)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (83)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7163  
Xaa Pro Ile Xaa Lys Xaa Xaa Arg Leu Cys Xaa Gln Asp Asn Arg Leu  
1 5 10 15

Gly Asn Ser Ser Thr Arg Val Ala Lys Thr Gln Thr His Leu Leu Gly  
20 25 30

**6367**

Leu Xaa His Xaa Ile Ala Ile Asn Xaa Phe Pro Cys Gly Leu Leu Xaa  
           35                          40                          45  
 Glu Glu Phe Ala Leu Leu Xaa Pro Ser Gly Val Pro His Ala Arg Xaa  
           50                          55                          60  
 Ser Cys Pro Cys Arg Pro Ile Leu Ile Tyr Arg Ala Thr Arg Lys Thr  
       65                          70                          75                          80  
 Ile Cys Xaa Ser

&lt;210&gt; 7164

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7164

Ala Ala Arg Ala Leu Pro Arg Arg Thr Xaa Glu Ile Thr Val Thr Xaa  
       1                          5                          10                          15  
 Ser Ser Ala Leu Val Arg Asn Arg Glu Gln Leu Arg Leu Ser Pro Lys  
           20                          25                          30  
 Asn Leu Leu Glu Gly Leu Glu Lys Phe Leu Pro Leu Ile Pro Ala Xaa  
           35                          40                          45

&lt;210&gt; 7165

## 6368

<211> 93  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (79)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (87)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (91)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7165  
 Lys Asn Gln Ala Ala Gly Arg Glu Ser Leu Gln Ser Arg Xaa Glu Val  
     1                    5                    10                    15  
 Glu Tyr Thr Arg Asp Gln Thr His Asp His Ser Ser Leu Gln Thr Phe  
                     20                    25                    30  
 Leu Gly Xaa Gln Gln Pro Met Pro Ser Leu Gly Met Leu Pro Leu Cys  
           35                    40                    45  
 Cys Glu Glu Leu Ile Leu Val Phe His His Ser Gly Ser Asn Met Leu  
       50                    55                    60

## 6369

Xaa Pro Thr Ser Leu Asp Xaa Pro Gly Leu Thr Ile Ile Leu Xaa Phe  
 65 70 75 80

Leu Phe Val Leu Ser Thr Xaa Ser Asn Asn Xaa Thr Ser  
 85 90

<210> 7166

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7166

Glu Asn Arg Tyr Ser Ser Leu Ser Xaa Asn Asn Leu Ile Pro Pro Val  
 1 5 10 15

Gln Leu Lys Tyr Leu Leu Gly Lys Tyr Tyr Cys Glu Arg Arg Asn Xaa  
 20 25 30

## 6370

Tyr Xaa Tyr Ile Leu Thr Ile Arg His Leu Xaa Arg Lys His Thr Thr  
35 40 45

Leu Xaa Tyr Leu Thr Asn Trp Lys Thr His Thr Ser Gly Ala Lys Leu  
50 55 60

Gln Leu Arg His Leu Phe Leu Ala Val Arg Ser Ile Xaa  
65 70 75

<210> 7167

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6371

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7167

Ser	Cys	Arg	Xaa	Gly	Thr	Ser	Xaa	Ile	Val	His	Xaa	Met	Leu	Val	Xaa
1				5				10					15		

Ile	Glu	Asp	Asn	Xaa	Asp	Phe	Arg	Lys	Xaa	Leu	Xaa	Gly	Cys	Cys	Phe
			20					25					30		

Tyr	Asn	Xaa	Xaa	Ser	Thr	Glu	Arg	His	Lys	Pro	Gln	Thr	Ser	Ser	Ser
		35					40					45			

Pro	Arg	Thr
		50

&lt;210&gt; 7168

&lt;211&gt; 35

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 6372

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7168

Gly	Lys	Tyr	His	Ser	Pro	Ser	Ile	Leu	Thr	Lys	Gly	Xaa	Lys	Met	Thr
1				5					10					15	

Met	Cys	Met	Xaa	Cys	Asp	Ala	Thr	Thr	Leu	Xaa	Xaa	Arg	Xaa	Tyr	Thr
			20					25					30		

Lys	Glu	Lys
		35

&lt;210&gt; 7169

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7169

Pro	Leu	Tyr	Leu	Leu	His	Asn	Glu	Leu	Thr	Arg	Ile	Thr	Cys	Lys	Arg
1				5					10					15	

Ala	Lys	Leu	Arg	Pro	Arg	Asn	Xaa	Glu	Leu	Leu	Arg	Thr	Leu	Lys	Asp
			20					25					30		

Thr	Pro	Ser	Met	Cys	Lys	Tyr	Gly	Lys	Ile	Ile	Val	Ser	Thr	Thr	Thr
		35					40					45			

Ser	Cys	Asp	Thr	Gly	Val	Lys	Ile	Ile	Tyr	Ser	Leu
	50					55					60

&lt;210&gt; 7170

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 7170

Pro	Leu	Lys	Asp	Lys	Arg	Thr	Pro	Ala	Gly	Ala	Ala	Leu	Thr	Met	Asp
1				5					10					15	

Pro	Gly	Leu	Gln	Asn	Ser	Ala	Arg	Ala	Gln	Thr	Gly	Lys	Thr	Arg	His
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



## 6373

	20		25		30										
Asn	Asp	Lys	His	Thr	Gly	Cys	Cys	Gly	Asp	Asn	Asp	Gln	Leu	Ser	Val
	35						40					45			

<210> 7171

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 6374

<221> SITE  
 <222> (77)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (81)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (87)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (92)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 7171  
 Gly Ile Xaa Val Pro Ser Leu Pro Val Ser Gly Leu Tyr Ala Xaa Arg  
   1                  5                  10                  15  
  
 Gly Leu Xaa Ser Ala Asp Xaa Ile Ser Asp Tyr Val Tyr Thr Ser Ser  
                   20                  25                  30  
  
 Thr Asn Cys Val Gln Leu Leu Gly Phe Trp Xaa Xaa Thr Pro Leu Pro  
           35                  40                  45  
  
 Gly His Ala Asp Asp Pro Gly Met Pro Lys Asn Ala Leu Arg Ser Pro  
   50                  55                  60  
  
 Asp Tyr Val Ser Trp Xaa Cys Tyr Met Pro Asn Leu Xaa Ser Ala Thr  
   65                  70                  75                  80  
  
 Xaa His Met Ile Cys Thr Xaa Arg Asn Asp Thr Xaa  
                   85                  90

<210> 7172  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>

## 6375

<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7172  
Arg Xaa Xaa Leu Asp Ser Pro Arg Gly Ala Ala Leu Xaa Tyr Gly Ser  
1 5 10 15  
Pro Gly Cys Met Asn Ser His Glu His Ala Arg Gly Pro Asn Asn Ser  
20 25 30  
Glu Ala Gly Gly Ile Pro Thr Leu Xaa Leu Asp  
35 40

<210> 7173  
<211> 72  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (66)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7173  
Lys Val Cys Ile Glu Tyr Thr Ser Gly Phe Phe Ala Leu Leu Phe Ala  
1 5 10 15  
His Cys Ser His Val Phe Phe Ile Ala Val Ser Lys Asn Ile Leu Asp

## 6376

20 25 30  
Xaa Tyr Gly Met Leu Phe Phe Ser His Gln Leu Lys Leu Leu Lys Asn  
35 40 45  
Ile Xaa Tyr Ile Cys Gly Lys Asp Ser Glu Arg Ser Ile Gly Val Leu  
50 55 60  
Leu Xaa Val Pro Asn Cys Leu Leu  
65 70

<210> 7174  
<211> 64  
<212> PRT  
<213> Homo sapiens

<400> 7174  
Glu Lys Asn Ile Ser Glu Trp Gly Ile Leu Arg Lys Met Ile Asn Thr  
1 5 10 15  
Ala Gln Glu Tyr Lys Lys Glu Ser Lys Ser Tyr Asn Met Ser Leu Leu  
20 25 30  
His Ile Tyr His Ser Ser Leu Phe Cys Phe Val Leu Asp Asp Ala Lys  
35 40 45  
Leu Arg Gly Leu Ala Ala Pro Ser Asn Leu Ser Met Glu Ser Asp Ser  
50 55 60

<210> 7175  
<211> 89  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (66)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 6377

<220>  
 <221> SITE  
 <222> (74)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (80)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (83)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7175  
 Asn Pro Glu Ser Glu Arg Gly Arg Asp Asp Gly Leu Gln Ala Ser Gly  
 1 5 10 15  
 Pro Ser Arg Gly Pro Arg Ser Met Trp Leu Leu Pro Ser Leu Ser Val  
 20 25 30  
 Leu Cys Val Ala Ser Ser Ser Leu Thr Gly Tyr Pro Ala Xaa Pro Ser  
 35 40 45  
 Ser Phe Ser Ser Pro Thr Phe Pro Lys Gly Val Leu His Phe Tyr Phe  
 50 55 60  
 Gly Xaa Asn Phe Ser Trp Gly Glu Asn Xaa Gly Trp Gly Leu Pro Xaa  
 65 70 75 80  
 Lys Pro Xaa Gly Thr Phe Pro Ala Ile  
 85

<210> 7176  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals any of the naturally occurring L-amino acids

## 6378

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7176

Thr	Ala	Ser	Gly	Ser	Trp	Asp	Lys	Leu	Gly	Phe	Thr	Leu	Ile	His	Asn
1				5				10					15		

Ser	Ile	Ser	Ser	Ser	Val	Phe	Pro	Phe	Pro	Thr	Leu	Arg	Phe	Leu	Cys
			20					25					30		

Cys	Arg	Trp	Ala	Gln	Xaa	Arg	Thr	His	Pro	Thr	Xaa	Pro	Gly	Xaa	Pro
		35					40					45			

Gly	Gly	Lys	Pro	Gly	Gly	Gly	Ala	Gly	Lys	Asn	Arg	Pro	Asn	Asp	Cys
	50					55					60				

&lt;210&gt; 7177

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7177

Asn	Phe	Glu	Gly	Ser	Leu	Arg	Lys	Pro	Leu	Asn	Trp	Lys	Ser	Leu	Ala
1				5					10				15		

Ala	Leu	Ser	Xaa	Ile	Ser	Val	Asn	Val	Ser	Lys	Glu	Leu	Met	Leu	Cys
			20					25					30		

Tyr	Leu	Ile	Lys	Pro	Ser	Thr	Met	Thr	Asp	Lys	Glu	Met	Glu	Ser	Pro
		35					40					45			

Glu	Met	Phe	Glu	Lys	Asp
	50				

&lt;210&gt; 7178

&lt;211&gt; 41

&lt;212&gt; PRT

## 6379

<213> Homo sapiens

<400> 7178

```
Arg Met Pro Asn Lys Ala Arg Lys Ser Ile Val Thr Cys Ala Leu Arg
 1             5             10             15

Ala Gln Tyr Leu Tyr Leu Ile Ser Thr Glu Glu Ile Phe Leu Cys Asn
          20             25             30

Leu Ile Phe Cys Leu Val Leu Val Leu
      35             40
```

<210> 7179

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7179

```
Leu Phe Phe Asn Thr Cys Val Pro Val Asn Ile Met Ser Asn His Lys
 1             5             10             15

Cys Leu Ile Gly Trp Ser Xaa Xaa Val Gly Glu Glu Arg Tyr Arg Ser
          20             25             30

Cys Leu Ile Ser Ile Ser Cys Ser Ala Leu Lys Ile Phe Ile
      35             40             45
```

<210> 7180

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6380

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (76)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (88)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (92)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (93)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (98)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>



## 6381

<221> SITE  
 <222> (108)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (110)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (111)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (112)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7180  
 Asp Cys Phe Val Ser Ile Pro Ile Leu Tyr Ser Cys Ser Trp Xaa Asn  
   1                  5                  10                  15  
 Xaa Asn Gln Ala Leu Ser Ile Leu Pro Lys Thr Xaa Val Cys Asp Ser  
                   20                  25                  30  
 Ser Phe Gln Trp Leu Phe Ser Ile Pro Ser Xaa Arg Xaa Pro His Leu  
           35                  40                  45  
 Ser Ser Xaa Leu Pro Ser Ser Trp Thr Val Arg Cys Leu Phe Tyr Ser  
       50                  55                  60  
 Pro Phe Ser Ile Arg Val Trp Asp Gly Pro Lys Xaa Ser Ser Ser Leu  
   65                  70                  75                  80  
 Asn Asn Ile Val Leu Asp Thr Xaa Ile Glu His Xaa Xaa Leu Leu Val  
                   85                  90                  95  
 Ala Xaa Leu His Cys Ile Leu Val Tyr Gln Ile Xaa Pro Xaa Xaa Xaa  
       100                  105                  110

<210> 7181  
 <211> 63  
 <212> PRT  
 <213> Homo sapiens

## 6382

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (56)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7181  
Leu Asp Phe Cys Met Glu Asn Ile Gln Gly Tyr Ile Ser Leu Phe Leu  
1 5 10 15  
Tyr Ser Arg Glu Gly His Leu Val Leu Cys Lys Tyr Val Ala Asp Leu  
20 25 30  
Ser Phe Ser Asp Xaa Arg Ala Pro Xaa Leu Lys Val Phe Leu Asn Ala  
35 40 45  
Trp Lys Glu Asn Val Ile Phe Xaa Glu Ser Asn Ile Phe Ile Ser  
50 55 60

<210> 7182  
<211> 18  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7182

## 6383

Leu Xaa Phe Ala Leu Ser Xaa Cys His Gly His Asp Ser Arg Ser Xaa  
 1 5 10 15

Ser Lys

<210> 7183

<211> 38

<212> PRT

<213> Homo sapiens

<400> 7183

Asp Ile Asp Phe Trp His Asp Arg Val Arg Arg Leu Met Lys Pro Leu  
 1 5 10 15

Pro Lys Lys Thr Ala Arg Lys Leu Glu Glu Asn Cys Gln Lys His Pro  
 20 25 30

Phe Gln Leu Pro Lys Asn  
 35

<210> 7184

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7184

Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg  
 1 5 10 15

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Pro  
 20 25 30

Lys Xaa Xaa  
 35

## 6384

&lt;210&gt; 7185

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7185

Cys	Cys	Gly	Leu	Cys	Val	Thr	Leu	Ser	His	Ile	Ile	Gln	Arg	Ile	Met
1				5					10					15	

Phe	Thr	Phe	Ile	Ala	Lys	Xaa	Ile	Cys	Leu	Met	Pro	Asn	Thr	Pro	Ser
			20					25					30		

Pro	Xaa	Ala	Pro	Arg	Pro	Gly	Val	Ser	Phe	Arg	Lys	Gly	Lys	Gly	Xaa
		35				40						45			

Gly	Leu	Tyr
	50	

&lt;210&gt; 7186

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6385

<220>  
 <221> SITE  
 <222> (28).  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (33)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7186  
 Lys Glu Lys Gly Lys Cys His Lys Lys Leu Glu Tyr Leu Trp Ser Leu  
     1                    5                    10                    15  
 Lys Pro Trp Asn Leu Leu Xaa Gly Xaa Val Tyr Xaa Arg Asn Pro Gly  
                     20                    25                    30

Xaa

<210> 7187  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (12)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7187  
 Phe Ile Tyr Xaa Cys Cys Ala Leu Thr Val Pro Xaa Ile Ile Leu Xaa  
     1                    5                    10                    15

6386

Tyr His Xaa Val  
20

&lt;210&gt; 7188

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7188

Glu Leu Val Ser Ser Phe Phe Phe Phe Phe Xaa Xaa Xaa Thr Trp Ile

1

5

10

15

&lt;210&gt; 7189

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 6387

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7189

Xaa	Ser	Tyr	Xaa	Phe	Ser	Arg	Xaa	Asn	Val	Leu	Pro	Leu	Thr	Phe	Ile
1				5				10						15	

Asn	Ser	Val	Tyr	Ile	Phe	Xaa	Gln	His	Ser	Lys	Leu	Leu	Glu	Ser	Asn
			20					25					30		

Ser	Phe	Thr	Tyr	Phe	Tyr	Leu	Leu	Phe	Ser	Leu	Cys	Thr	Ala	Leu	Ser
		35					40					45			

Cys	Ile	Val	Phe	Gln	His	Met	Arg	Leu	Thr	Ala	His
50						55					60

&lt;210&gt; 7190

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7190

Val	Asn	Thr	Ile	Pro	Xaa	Thr	Arg	Leu	Arg	Gly	Xaa	Thr	Cys	Gln	Ile
1				5				10					15		

Val	Leu	Ser	Leu	Ala	Met	Tyr	Pro
			20				

&lt;210&gt; 7191

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

## 6388

<220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7191  
 Gly Glu Leu Leu Leu Gln Glu Thr Ala Asp Phe Gly Xaa Lys Leu Leu  
     1                    5                    10                    15  
 Leu Xaa Xaa Ser Pro Gly Gly Thr Val Pro Thr Val Ser Trp Arg Asn  
                     20                    25                    30  
 Asn Xaa Leu Xaa  
                     35

<210> 7192  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (11)



## 6389

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7192

Tyr	Ala	Leu	Ser	Lys	Leu	Thr	Xaa	Thr	Lys	Xaa	Asn	Lys	Ser	Trp	Xaa
1				5					10					15	

Ser	Thr	Gly	Gly	Gly	Gly	Gly	Xaa	Lys	Xaa	Xaa	Gly	Ser	Pro	Gly	Xaa
			20					25					30		

Lys

<210> 7193

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7193

Leu Val Pro Asn Ser Ala Arg Val Ser Pro Gly Ile Gln Ala Phe Arg

## 6390

1	5	10	15
Ala Thr Gly Pro Leu Asn Tyr Trp Pro Glu Leu Pro Thr Leu Pro Val	20	25	30
Gln Arg Leu Trp Cys Tyr Gly Gly Pro Leu His Ser Lys Ser Ser Xaa	35	40	45
Ile Ser Lys His Leu Leu His	50	55	

<210> 7194

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

## 6391

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7194

Ala	Asn	Leu	Thr	Leu	Xaa	Phe	Met	Leu	Ala	Ser	Xaa	Leu	Xaa	Asp	Gln
1				5					10					15	

Lys	Glu	Lys	Xaa	Lys	Leu	Ser	Pro	Glu	Phe	Xaa	Asn	Tyr	Gly	Glu	Lys
				20				25					30		

Leu	Ile	Leu	Ile	Val	Thr	His	Xaa	Ala	Thr	Leu	Ser	Leu	Phe	Cys	Phe
								40					45		

## 6392

Val Phe Pro Ser Asn Xaa Xaa Lys Cys Xaa Glu Pro Arg Leu Leu Xaa  
 50 55 60

Xaa Xaa Ala Xaa Xaa Phe His Leu Pro Trp Leu Leu Ile Pro Pro Lys  
 65 70 75 80

Leu Gln Asn Pro Ile Leu Gly Xaa Asn Leu Ser Ala  
 85 90

&lt;210&gt; 7195

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7195

Leu Tyr Xaa Leu Leu Ser Pro Asn Gln Val Tyr Met Trp Phe Asp Lys  
 1 5 10 15

Tyr Tyr Ser Ile Leu Met Gly Ile Leu Met Gln Arg Ile Xaa Xaa Gly  
 20 25 30

Ile Val Leu Glu Ile Tyr Lys Ile Lys Thr Val Cys Leu Ile  
 35 40 45

&lt;210&gt; 7196

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

## 6393

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7196

Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg

1

5

10

15

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Thr

20

25

30

Gln Ile Xaa Val Xaa

35

&lt;210&gt; 7197

&lt;211&gt; 99

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 6394

<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (58)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (68)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (70)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 6395

&lt;222&gt; (72)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (73)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (75)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (83)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (86)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (88)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (90)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (95)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7197

Glu	Xaa	Glu	Ile	Phe	Glu	Lys	Ile	Met	Leu	Lys	Phe	Ser	Gln	Phe	Xaa
1				5					10					15	

Xaa	Lys	Asn	Leu	Ile	Phe	Xaa	Pro	Lys	Xaa	Leu	Asn	Glu	Leu	Asp	Lys
		20						25				30			

Xaa	Xaa	Lys	Ile	Xaa	Pro	Lys	Thr	Xaa	Ser	Xaa	Phe	Phe	Leu	Xaa	Ser
		35					40				45				

Pro	Lys	Xaa	Lys	Ile	Phe	Leu	Glu	Tyr	Xaa	Gly	Glu	Lys	Thr	Pro	Pro
		50				55					60				

## 6396

Phe Leu Trp Xaa Pro Xaa Lys Xaa Xaa Val Xaa Phe Leu Thr Thr Gly  
 65 70 75 80

Gly Gly Xaa Val Phe Xaa Thr Xaa Pro Xaa Lys Lys Lys Asn Xaa Pro  
 85 90 95

Pro Phe Phe

<210> 7198

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7198

Phe Ser Ser Leu Lys Leu Ser Leu Glu Tyr Leu Ser Leu Leu Leu Val  
 1 5 10 15

Leu Trp Leu Leu Met Ile Leu Ala Phe Ser His Phe Asp Phe Val Leu  
 20 25 30

Lys Lys Asn Phe Glu Pro Asn Asn Ile Pro Val Tyr Phe Xaa Pro Ile  
 35 40 45



**6397**

Thr Phe His Glu Ser Arg Ala His Ser Xaa Xaa Pro Xaa Ile Pro Lys  
 50 55 60

Thr Xaa Val Pro Thr Ile Met Gly Gly Gly Val Ser  
 65 70 75

<210> 7199

<211> 39

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7199

Cys Lys Asp Asn Gly Lys Pro Leu Ala Gly Phe Met Glu Asp Gly Val  
 1 5 10 15

Leu Asn Arg Cys Phe Trp Lys Cys Lys Val Asp Asn Gly Leu Lys Leu  
 20 25 30

Xaa Thr Thr Leu Xaa Ala Trp  
 35

<210> 7200

<211> 38

<212> PRT

<213> Homo sapiens

<400> 7200

Ala Arg Arg Lys Gly Cys Thr Glu Phe Glu Asp Thr Ala Ala Val Ser  
 1 5 10 15

Trp Arg Glu Glu Ala Lys Gly Ala Arg Arg Leu Gln Ala Lys Gly Gly  
 20 25 30

Gly Ala Trp Asp Leu Asn  
 35

## 6398

&lt;210&gt; 7201

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7201

Xaa	Pro	Xaa	Val	Xaa	Asp	Lys	Leu	Phe	Pro	Lys	Asn	Gln	Asn	Met	Ser
1				5					10					15	

Trp	Ser	Trp	Thr	Phe	Lys	Pro	Val	Leu	Xaa	Val	Ile	Pro	Asn	Tyr	Gly
			20					25					30		

Lys	Ser	Val	Arg	Glu	Gln	Xaa	Ile	Leu	Pro	Lys	Asn	Glu	Xaa	Pro	Cys
		35					40					45			

Arg	Lys	Pro	Glu
			50

## 6399

<210> 7202  
<211> 66  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (20)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (24)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 6400

<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7202  
Glu Xaa Leu Xaa Tyr Glu Lys Gly Thr Arg Xaa Met Cys Ala Cys Val  
1 5 10 15  
Asn Pro Thr Xaa Thr Ser Xaa Xaa Xaa Xaa Xaa Trp Xaa Phe Xaa Ile  
20 25 30  
Phe Leu Pro Pro Ile Ser Tyr Pro Lys Gln Asn Lys Xaa Pro Phe Ser  
35 40 45  
Ile Ile Ser Xaa Asn Ile Gln Tyr Cys Pro Cys Gly Ile Phe Leu Asn  
50 55 60  
Ser Leu  
65

<210> 7203  
<211> 122  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 6401

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (61)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (66)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 6402

<220>  
<221> SITE  
<222> (68)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (69)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (71)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (73)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (76)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (82)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (89)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (91)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (107)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (112)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7203

## 6403

Ser Cys Arg Ser Cys Arg Xaa Arg His Lys Arg His Glu Glu Gln Val  
 1 5 10 15  
 Xaa Asn Leu Ser Xaa Xaa Xaa Asn Thr Xaa Pro Val Cys Xaa Ser Thr  
 20 25 30  
 Cys Lys Leu Xaa Arg Cys Leu Leu Xaa Tyr Arg Phe Ile Ser Gln Thr  
 35 40 45  
 Thr Val His Xaa Cys Leu Pro Arg Glu Leu Gln Asp Xaa Ile Thr Phe  
 50 55 60  
 Asp Xaa Ser Xaa Xaa Ile Xaa Cys Xaa Lys Val Xaa Asn Phe Asn Phe  
 65 70 75 80  
 Leu Xaa Asn Ile Gln Leu Phe Asn Xaa Ser Xaa Ile Thr Ser Tyr Phe  
 85 90 95  
 Asn Leu Asn Leu Asn Tyr Arg Lys Val Ser Xaa Leu Ser Phe Glu Xaa  
 100 105 110  
 Leu Leu Pro Arg Phe Asn Phe Ser Ser Leu  
 115 120

&lt;210&gt; 7204

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7204

Leu Leu Lys Arg Thr Lys Ser Trp Gly Pro Pro Ala Val Lys Xaa Arg  
 1 5 10 15  
 Phe Leu Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Gly Thr Pro  
 20 25 30  
 Leu Pro Glu Lys Thr Val Xaa Val  
 35 40

## 6404

<210> 7205  
<211> 73  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (44)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (68)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (71)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7205  
Gln Thr Met Phe Thr Thr Cys Arg Pro Ser Ile Arg Ile Phe Leu Gly  
1 5 10 15



## 6405

Ser Leu Met Ile Tyr Leu His Ala Ile Cys Pro Gln Gln Ile Val Ser  
20 25 30

Gln Glu Trp Asn Xaa Gln Gly His Trp Xaa Cys Xaa Lys Val Xaa Lys  
35 40 45

Arg Ala Xaa His Pro Leu Lys Phe Arg Phe Val Asn Ile Xaa Leu Thr  
50 55 60

Asn Ser Asn Xaa Ala Met Xaa Phe Pro  
65 70

<210> 7206

<211> 32

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

&lt;221&gt; SITE

 $\langle 222 \rangle$  (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

&lt;222&gt; (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7206

Leu Leu Lys Gly Lys Xaa Trp Ala Pro Arg Gly Xaa Gly Arg Phe Leu  
1 5 10 15

Thr Ser Gly Ser Pro Gly Xaa Gln Gly Ile Arg Gly Xaa Pro Pro Cys  
20 25 30

## 6406

<210> 7207  
<211> 74  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (72)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7207  
Tyr Pro Asp Ile Pro Ala Leu Xaa Gln Arg Xaa Gly Leu Lys Lys Lys  
1 5 10 15

Ser Thr Cys Ser Phe Arg Pro Gln Ala Gln Gln Xaa Gly Glu Ile Asn  
20 25 30

## 6407

Cys Phe Trp Lys His Leu Gly Gly Val Trp Gly Trp Ala Xaa Lys Lys  
                   35                                  40                                  45

Gln Val Xaa Phe Asn Xaa Leu Leu Trp Lys Phe Cys Phe Ile Ile Ile  
           50                                  55                                  60

Pro Phe Pro Leu Cys Tyr Thr Xaa Pro Xaa  
       65                                  70

<210> 7208

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7208

Lys Arg Asn Trp Cys Val Asn Gln His Lys Ile Leu Glu Cys Ile Ser  
       1                                  5                                  10                                  15

Ile Ser Ile Phe Ser Pro Thr Asn Pro Val Thr Val Val Asn Asn Gln  
                   20                                  25                                  30

Cys Val Asn Asn Glu Tyr Leu Phe Phe Thr Leu Phe Gln Gly Lys Thr  
           35                                  40                                  45

Asn Ile Tyr Gly Thr Leu Pro Phe Glu Xaa Thr Leu Glu  
       50                                  55                                  60

<210> 7209

<211> 17

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6408

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7209

Ala	Ala	Arg	Thr	Xaa	Pro	Glu	Ser	Val	Ser	Cys	Xaa	Pro	Glu	Ile	Thr
1				5					10					15	

Xaa

&lt;210&gt; 7210

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 7210

Ala	Arg	Ala	Glu	Phe	Gly	Thr	Ser	Pro	Asn	Glu	Leu	Leu	Asp	Pro	Asp
1				5					10					15	

Cys	Val	His	Arg	Trp	Leu	Lys	Gln	Ser	Asp	Leu	His	Leu	Gly	Asp	Glu
			20					25					30		

Ile	Ile	Gln	Val	His	Arg	Asp	Pro	Ala	Ala	Leu	Asp	Gly	Ser	Gly	Cys
		35					40					45			

Ala	Thr	Leu	Thr	Val	Val	Met	Arg
	50					55	

&lt;210&gt; 7211

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 6409

<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7211  
Leu Lys Val Trp Lys Ala Glu Phe Met Lys Lys Asn Xaa Lys Lys Ala  
1 5 10 15  
Xaa Ser Asn His Asp Leu Pro Ile Lys Xaa Xaa Trp Phe Gly Gly Lys  
20 25 30  
Gly Xaa Val Gly  
35

<210> 7212  
<211> 33  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 6410

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7212

Xaa	Leu	Leu	Lys	Gly	Gln	Lys	Leu	Xaa	Pro	His	Arg	Gly	Lys	Arg	Pro
1				5				10					15		

Leu	Leu	Xaa	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Lys	Phe	Gly	Asp	Xaa
			20					25					30		

Xaa

&lt;210&gt; 7213

&lt;211&gt; 86

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7213

Ile	Cys	Pro	Gln	Asn	Pro	Leu	Asn	Pro	Leu	Val	Asn	Leu	Thr	Val	Ser
1				5					10				15		

## 6411

Pro Lys Xaa Asn Ser Ser Leu Asp Thr Arg Lys Lys Pro Cys Arg Xaa  
                   20                  25                  30  
 Ser Lys Lys Phe Asn Thr His Gly Arg Pro Lys Ser Ser His Xaa Leu  
                   35                  40                  45  
 Arg Lys Arg Ser Ser Ser Thr Pro Thr Thr Xaa Xaa Ile Pro Asn Ile  
                   50                  55                  60  
 Leu Leu Asn Ser Ser His Pro Ile Gly Thr Asn Leu Ser Pro Tyr Arg  
                   65                  70                  75                  80  
 Lys Asn Leu Cys Leu Leu  
                                   85

&lt;210&gt; 7214

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7214

Gly Ala Leu Ile Xaa Arg Leu Ser Ala Ser Leu Gln Trp Gly Xaa Ser  
           1                  5                  10                  15

Pro Ile Pro Asn Phe Phe Phe Xaa Xaa Gly Ala Gln Pro Asn Ser Pro  
                   20                  25                  30

Leu

## 6412

&lt;210&gt; 7215

&lt;211&gt; 85

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (75)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7215

Gln	Gln	His	Leu	Asn	Thr	Thr	Thr	Phe	Gln	Lys	Ser	Ser	Lys	Phe	His
1				5					10					15	

Leu	Thr	Cys	Lys	Ala	Cys	Gly	Asn	Pro	Thr	Ser	Pro	Glu	Pro	Asp	Leu
			20					25					30		

Val	Val	Asn	Tyr	Leu	Glu	Pro	Pro	Asn	Lys	Ser	Thr	Trp	Lys	Gln	Asp
		35					40					45			

Thr	Thr	Tyr	Gly	Thr	Ile	Cys	Arg	Pro	Tyr	Gln	Pro	Pro	Asp	Thr	Ile
	50					55					60				

Ile	Ser	His	Phe	Asn	Cys	Leu	Pro	Leu	Lys	Xaa	Gly	Phe	Thr	Lys	Asn
65					70					75					80

Lys	Met	Val	Leu	Pro
				85

&lt;210&gt; 7216

&lt;211&gt; 67

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE



## 6413

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 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 7216  
 Phe Ser Pro Ser Xaa Cys Leu Gln Xaa Cys Xaa Val Xaa Asn Leu Thr  
   1                  5                  10                  15  
  
 Phe Asp Xaa Lys Thr Tyr Leu Ile Asn Asp Ser Thr Asn Phe Gly Lys  
           20                  25                  30  
  
 Lys Lys Pro Phe Xaa Lys Leu Xaa Lys Ile Pro Ile Leu Leu Asn Xaa  
       35                  40                  45  
  
 Pro Pro Ser Gly Thr Arg Glu Val Gln Asn Ser Phe Xaa Phe Gly Leu  
   50                  55                  60  
  
 Tyr Tyr Phe  
   65

## 6414

&lt;210&gt; 7217

&lt;211&gt; 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (54)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7217

Asp	Thr	Ala	Glu	Ile	Ser	Lys	Phe	Cys	Leu	Lys	Ser	Asp	Lys	Val	Xaa
1					5				10					15	

Val	Ala	Leu	Ala	Leu	Xaa	Lys	Val	Gly	Asp	Ile	Phe	Asp	Tyr	Ile	Ser
		20						25					30		

Leu	Tyr	Leu	His	Ser	Xaa	Gln	Ala	Ser	Ser	Met	Asp	Cys	Lys	Asn	Leu
		35					40					45			

Arg	Glu	Gln	His	Thr	Xaa	Leu	Gln	Ser	Glu	Gln	Met	Asn
	50					55					60	

&lt;210&gt; 7218

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7218

## 6415

Lys Asn Tyr Ser Ser Phe Ser Asn Arg Ser Phe Thr Leu Asn Phe Ile  
 1 5 10 15  
 Phe Gly Leu Tyr Phe Lys Ile Ser Lys Tyr Met Lys Pro Tyr Leu Gln  
 20 25 30  
 Xaa Ile Ser Phe Gly Phe Arg Leu Thr Leu Phe Trp Asn Ser Glu Asn  
 35 40 45

<210> 7219

<211> 116

<212> PRT

<213> Homo sapiens

<220>

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<222> (1)

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<220>

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<222> (4)

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<220>

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<222> (10)

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<223> Xaa equals any of the naturally occurring L-amino acids

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## 6416

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<223> Xaa equals any of the naturally occurring L-amino acids

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<220>  
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## 6417

<223> Xaa equals any of the naturally occurring L-amino acids

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<400> 7219

Xaa	Leu	Gln	Xaa	Thr	Lys	Lys	Phe	Pro	Xaa	Phe	Tyr	Phe	Leu	Lys	Thr
1				5				10					15		

Ile	Leu	Xaa	Ile	Ser	Phe	Gly	Xaa	Arg	Xaa	Tyr	Ser	Leu	Phe	Leu	Leu
			20					25					30		

Lys	Ser	Leu	Leu	Trp	Pro	Leu	Val	Ser	Leu	Xaa	Phe	Leu	Ser	Gly	Xaa
		35				40						45			

Xaa	Asn	Xaa	Xaa	Gly	Ala	Phe	Ser	Arg	Phe	Ala	His	Ser	Thr	Xaa	Leu
	50					55					60				

Val	Lys	His	Asp	Leu	Cys	Val	Asn	Gly	Ile	Val	Trp	Thr	Pro	Trp	Xaa
65					70					75					80

Gly	Met	Leu	Gly	Lys	Thr	Lys	Glu	Gly	Pro	Glu	Leu	Pro	Thr	Ala	Gln
				85					90					95	

Glu	Gly	Xaa	Xaa	Xaa	Ala	Pro	Xaa	Leu	Glu	Leu	Lys	Pro	Pro	Pro	Lys
		100						105					110		

Met	Xaa	Pro	Tyr
		115	

<210> 7220

<211> 55

<212> PRT

<213> Homo sapiens

<220>

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<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7220

Val	Phe	Phe	Phe	Leu	Ile	Phe	Cys	Ser	Ser	Trp	Phe	Val	Leu	Lys	Cys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 6418

1                      5                      10                      15  
Leu Thr Ile Trp Asn Val Lys Leu Leu His Val Leu Gln Ser Lys Ser  
                    20                      25                      30  
Xaa Val Lys Ser Gly Xaa Val Lys Asn Ile Ile Pro Val Gly His Cys  
                    35                      40                      45  
Pro His Phe Cys Ala Gly Gly  
                    50                      55

<210> 7221

<211> 118

<212> PRT

<213> Homo sapiens

<220>

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<222> (52)

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## 6419

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

## 6420

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<400> 7221  
 Xaa Ala Ser Tyr Phe Ile Leu Leu Leu Ser Phe Ser His Tyr Tyr Asn  
 1 5 10 15  
 Val Ile Ile Gly Asp Leu Met Xaa Ser Gln Leu Phe Leu Ser Phe Met  
 20 25 30  
 Asn Ser Gly Ser Lys Lys Xaa Pro Lys Cys Leu Ser Leu Xaa Xaa Ile  
 35 40 45  
 Pro Gly Phe Xaa Gln Xaa Leu Xaa Ser Phe Trp Xaa Leu Xaa Xaa Thr  
 50 55 60  
 Xaa Ile Pro Phe Xaa Lys Lys Leu Phe Thr Trp Phe Asp Xaa Asn Pro  
 65 70 75 80  
 Gly Ser Ser Ile Ile Tyr Cys Leu Asn Xaa Gly Pro His Thr Xaa Pro  
 85 90 95  
 Ser Phe Xaa Ser Xaa Pro Xaa Xaa Lys Asn Tyr Ile Leu Xaa Xaa Xaa



## 6421

100

105

110

Asn Lys Ile Leu Lys Asn  
115

&lt;210&gt; 7222

&lt;211&gt; 121

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (40)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6422

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**6423**

&lt;400&gt; 7222

```

Pro Ala Leu Xaa Gly Leu Ala Leu Phe Ala Ile Leu Trp Val Gly Cys
 1              5              10              15

Gly Ile Tyr Pro Pro Ser Leu Xaa Pro Xaa Pro Ala Ser Ser Thr Cys
              20              25              30

Ser Gly Xaa Xaa Leu Asn Thr Xaa Arg Xaa Ile Arg Ala Ser Xaa Xaa
      35              40              45

Xaa Asn Met Xaa Xaa Phe Pro Xaa Leu Lys Ile Ile Xaa Cys Phe Ser
      50              55              60

Phe Lys Lys Met Val Asn Xaa Ala Pro Leu Ala Lys Ser Pro Xaa Xaa
      65              70              75              80

Thr Arg Val Ser Phe Ser His Pro Leu Pro Phe Trp Glu Phe Phe Asn
              85              90              95

Pro Pro Phe Gln Xaa Leu Pro Leu Phe Leu Pro Trp Pro Phe Phe Leu
      100              105              110

Gly Ile Leu Arg Arg Ile Lys Lys Ser
      115              120

```

&lt;210&gt; 7223

&lt;211&gt; 82

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6424

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## 6425

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<400> 7223  
Gly Thr Lys Xaa Xaa Cys Xaa Xaa Xaa Thr Xaa Ser Leu Xaa Ser Phe  
1 5 10 15  
Leu Val Lys Leu Xaa His Xaa Thr Ser Tyr Asn Asp Gly Ile Tyr Phe  
20 25 30  
Ser Arg Xaa Xaa Xaa Leu Tyr Pro Leu Gln Xaa Leu Tyr Xaa Asp Leu  
35 40 45  
His Leu Leu Leu Thr Xaa Trp Lys Thr Phe His Ile Val Leu Ile Thr  
50 55 60  
Asn Tyr Leu Ser Cys Leu Xaa Val Thr Leu Ile Tyr Ile Cys Arg Phe  
65 70 75 80  
Ser Pro

<210> 7224  
<211> 78  
<212> PRT  
<213> Homo sapiens

<220>  
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<400> 7224

## 6427

Arg Lys Thr Leu Xaa Ser Asp Xaa Xaa Leu Pro Thr Asp Leu Gln Asn  
 1 5 10 15  
 Gly Gln Tyr Leu Asp Xaa Leu Pro Phe Tyr Leu Leu Phe Leu Leu Gln  
 20 25 30  
 Xaa Xaa Xaa Gln Gly Thr Ser Ile Met Ile Xaa Lys Ile Tyr Phe Ile  
 35 40 45  
 Asn Met Phe Xaa Phe Thr Phe His Leu Phe His Xaa Pro Xaa Glu Tyr  
 50 55 60  
 Arg Cys Leu Xaa Asn Leu Ser Leu Xaa Lys Leu Gln Phe Cys  
 65 70 75

&lt;210&gt; 7225

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7225

Tyr Thr Lys Val Leu Pro Asn Arg Tyr Phe Tyr Xaa Glu Lys Phe Ile  
 1 5 10 15

Xaa Lys Phe Leu Ser Leu Lys Phe Gly Phe Phe Ile Asn Leu Lys Cys  
 20 25 30

Xaa Leu Arg Ile Thr Ile Leu Asn His Trp Asp Xaa  
 35 40

6428

<210> 7226  
<211> 97  
<212> PRT  
<213> Homo sapiens

<220>  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (69)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (86)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (92)



## 6429

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7226

Thr	Tyr	Ile	Thr	Pro	Pro	Phe	Ser	Xaa	Asn	Ser	Leu	Cys	Val	Lys	Ala
1				5				10						15	

Leu	Lys	Gly	His	Ile	Pro	Leu	Ile	Pro	Phe	Ile	Asn	Gln	Ile	Val	Leu
			20					25					30		

Cys	Asn	Lys	Val	Gly	Xaa	Trp	Pro	Xaa	Asn	Ser	Phe	Lys	Xaa	Trp	Asn
		35					40					45			

Leu	Glu	Ala	Gly	Lys	Phe	Gly	Leu	Phe	Xaa	Phe	Ser	Phe	Trp	Ala	Pro
	50					55					60				

Xaa	His	Ser	Leu	Xaa	Trp	Met	Asn	Pro	Phe	Leu	Leu	Phe	Leu	Gly	Gln
65					70					75				80	

Lys	Lys	Lys	Lys	Thr	Xaa	Gly	Gly	Pro	Val	Pro	Xaa	Pro	Leu	Phe	Phe
				85					90					95	

Phe

<210> 7227

<211> 110

<212> PRT

<213> Homo sapiens

<220>

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<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6430

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 6431

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<222> (61)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (64)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (69)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (75)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (76)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (93)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<220>  
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<222> (102)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (106)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7227  
Thr Pro Arg Xaa Tyr Xaa Phe Phe Xaa Lys Ile Xaa Lys Ile Leu Gly

## 6432

1	5	10	15
Pro Tyr Phe Leu Ile His Phe Ser Ala Pro Xaa Pro Ser Phe Xaa Pro	20	25	30
Leu Xaa Xaa Phe Trp Val Asn Ser Xaa Ser Pro Gly Xaa Gly Pro Phe	35	40	45
Xaa Phe Ser Xaa Phe Pro Pro Pro Phe Pro Xaa Xaa Xaa Leu Lys Xaa	50	55	60
Pro Gln Pro Pro Xaa Phe Pro Pro Asn Xaa Xaa Xaa Phe Phe Pro Asn	65	70	75
Leu Asn Ser Pro Pro Val Pro Trp Val Pro Asn Phe Xaa Pro Leu Lys	85	90	95
Thr Phe Pro Glu Xaa Xaa Phe Phe Ile Xaa Lys Pro Leu Lys	100	105	110

&lt;210&gt; 7228

&lt;211&gt; 94

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (67)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7228

Ala Ser Ile Ile Phe Phe Gln Val Gln Val Leu Lys Leu Leu Leu Asn	1	5	10	15
Leu Ser Glu Asn Pro Ala Met Thr Glu Gly Leu Leu Arg Ala Gln Val	20	25	30	
Asn Ser Leu Tyr Ile Tyr Phe Val Asn Ile His Ile Tyr Thr Phe Glu	35	40	45	
Gln Thr Asp Arg Ser Gly Lys Ile Lys Pro Lys Met Leu Gln Gly Phe	50	55	60	
Ser Leu Xaa Ser Ser Ile Lys Gly Gly Phe Leu Asn Ser Phe Cys Met	65	70	75	80
Tyr Glu Phe Pro Lys Phe Phe Ala Met Ser Leu Phe Tyr Phe	85	90		

6433

&lt;210&gt; 7229

&lt;211&gt; 47

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 7229

Ala Ala Arg Glu Leu Met Lys Ser Pro Ser Asn Phe Gln Ser His Thr  
1 5 10 15

Cys Ile Tyr Cys Gln Asn Leu Ser Met Thr Asn Thr Lys Leu Lys Ser  
20 25 30

Cys Phe Gln Arg Lys Lys Ile Ile Ser Leu Asn Tyr Phe Val Gly  
35 40 45

&lt;210&gt; 7230

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7230

Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg  
1 5 10 15

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Thr  
20 25 30

Xaa Xaa

&lt;210&gt; 7231

&lt;211&gt; 93

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

## 6434

<220>  
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<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (53)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (67)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (71)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 6435

&lt;221&gt; SITE

&lt;222&gt; (77)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7231

Leu Ala Leu Trp His Pro Val Leu Xaa Val Glu Leu Pro Gly Thr Xaa  
1 5 10 15

Ser Val Ser Pro Glu Ala Thr Ser Leu Glu Ala Ala Xaa Arg Xaa Xaa  
20 25 30

Xaa Ser Xaa Thr Thr Ile Phe Ile Val Ser Cys Val Ile Ala Tyr Phe  
35 40 45

Thr Asn Phe Ala Xaa Ala Leu Asn Leu Leu Asn Leu Leu Trp Pro Pro  
50 55 60

Pro Pro Xaa Lys Val Lys Xaa Val Asn Ser Asn Ser Xaa Pro Ala Pro  
65 70 75 80

Gly Ser Ala Pro Val Ile Pro Thr Gly Trp Thr Lys Gly  
85 90

&lt;210&gt; 7232

&lt;211&gt; 84

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (57)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (73)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (77)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 6436

<221> SITE  
<222> (79)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (81)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (82)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7232  
Ala Lys Ser Asp Phe Ser Glu Phe Gly Ala Lys Arg Lys Phe Thr Gln  
1 5 10 15  
Ser Phe Met Arg Ser Glu Glu Glu Gly Glu Lys Glu Arg Thr Glu Asn  
20 25 30  
Arg Glu Xaa Gly Arg Phe Ala Ser Gly Arg Arg Ser Gln Tyr Arg Arg  
35 40 45  
Ser Thr Asp Arg Glu Glu Glu Glu Xaa Met Asp Asp Glu Ala Ile Ile  
50 55 60  
Ala Ala Trp Arg Arg Arg Arg Glu Xaa Thr Arg Thr Xaa Leu Xaa Lys  
65 70 75 80  
Xaa Xaa Glu Asp

<210> 7233  
<211> 32  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>



## 6437

<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7233  
Xaa Lys Leu Val Val Val Ser Leu Glu Asn Val Xaa Lys Met Xaa Leu  
1 5 10 15  
Cys Val Leu Met Pro Trp Pro Asp Ser Leu Leu Xaa Phe Ile Glu Ile  
20 25 30

<210> 7234  
<211> 89  
<212> PRT  
<213> Homo sapiens

<400> 7234  
Leu Ala Glu Asn Arg Trp Pro Arg Gly Arg Gln Arg Asn Glu Gly Phe  
1 5 10 15  
Leu Ser Ser Cys Thr Glu Gln Ser Ser Pro Gly Thr Asn Leu Glu Tyr  
20 25 30  
Ser Val Gln Thr Thr Glu Glu Asp Lys Ile Asn Phe Tyr Ala Phe Lys  
35 40 45  
Lys Asn Tyr Gly Gln Asn Asn Ile Arg Thr Lys Thr Phe Met Ile Phe  
50 55 60  
Gln Leu Leu Gly Phe Val Tyr Gly Tyr Gln Gln Pro Cys Pro Ala Ile  
65 70 75 80  
Val Phe Ile Leu Phe Gln Ala Gly Cys  
85

<210> 7235  
<211> 64  
<212> PRT  
<213> Homo sapiens

## 6438

<220>  
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<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (55)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 6439

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (57)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7235

Phe Xaa Val Xaa Phe Glu Ser Xaa Ile Thr Trp Leu Lys Xaa Ile Pro  
1 5 10 15

Thr Xaa Pro Glu Arg Asn Asn Pro Xaa Gly Thr Leu Thr Pro Pro Leu  
20 25 30

Trp Lys Arg Gly Xaa Lys Ile Pro Pro Leu Ser Leu Ala Xaa Asn Phe  
35 40 45

Phe Pro Leu Xaa Phe Leu Xaa Phe Xaa His Pro Phe Lys Lys Thr Phe  
50 55 60

&lt;210&gt; 7236

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

## 6440

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7236

Thr	Ile	Gly	Ser	Pro	Gly	Leu	Tyr	Xaa	Ile	Arg	Xaa	Xaa	Leu	Val	Pro
1				5					10					15	

Asn	Ser	Val	Arg	Xaa	Ile	Thr	Ser	Leu	Glu	Phe	Leu	Phe	Phe	Phe	Pro
			20					25					30		

Asn	Ile	Val	Ser	Leu	Xaa	Asn	Xaa	Leu	Phe	Asn	Xaa	Leu	Xaa	Ala	Asn
		35					40					45			

Leu

<210> 7237

<211> 30

<212> PRT

<213> Homo sapiens

<400> 7237

Gly	Thr	Pro	Arg	Asn	Glu	Gln	Ala	Gly	Leu	Pro	Leu	Tyr	Arg	Cys	Trp
1				5					10					15	

Leu	Leu	Lys	Val	Phe	Asn	Cys	Lys	Leu	Gly	Gly	Phe	Gly	Asp
			20					25					30

<210> 7238

<211> 60

<212> PRT

<213> Homo sapiens

## 6441

<220>  
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 <222> (8)  
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<220>  
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 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (53)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7238  
 Val Leu Cys Pro Phe His Val Xaa Ile Cys Xaa Leu Thr Ile Leu Leu  
 1 5 10 15  
 Xaa Pro Leu Ile Pro Ala Gln His Val Phe Trp Ser Met Lys Ile Val  
 20 25 30  
 Leu Lys Thr Lys Ala Asn Ala Cys Ser Leu Pro Leu Ser Xaa Xaa Lys  
 35 40 45  
 Ser Tyr Pro Lys Xaa Asp Phe Glu Phe Arg Ser Trp  
 50 55 60

<210> 7239  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<220>

## 6442

<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7239  
Ala Ala Arg Ala Arg Ala Glu Phe Gly Thr Arg Gly Gly Pro Val Pro  
1 5 10 15  
Asn Ser Pro Tyr Ser Glu Ser Tyr Tyr Asn Ser Leu Ala Val Val Leu  
20 25 30  
Gln Arg Arg Asp Trp Thr Xaa Lys  
35 40

<210> 7240  
<211> 124  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (58)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (59)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (79)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (92)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (95)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (97)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 6443

<220>  
 <221> SITE  
 <222> (100)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (119)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7240  
 Pro Lys Ala Gln Phe Phe Glu Ser Leu Trp Pro Glu Leu Asp Ser Gln  
 1 5 10 15  
 Asp Ser Gly Ser Val Gln Arg Ala Arg Gly Thr Ala Ser Ser Ala Ala  
 20 25 30  
 Ala Pro Leu Met Pro Ser Pro Ala Leu Leu Pro Leu Pro Gly Leu Asn  
 35 40 45  
 Gly Val Ser Ile Glu Gly Trp Thr Pro Xaa Xaa Gly Glu Leu Val Pro  
 50 55 60  
 Cys Gly Tyr Lys Leu Gly Ala Ser Leu Arg Ala Val Pro Gly Xaa Met  
 65 70 75 80  
 Gly Ala Pro Leu Pro Pro Ala Thr Pro Pro Thr Xaa Lys Arg Xaa Asn  
 85 90 95  
 Xaa Thr Ser Xaa Ala Asn Pro Ser Pro Pro Gly Phe Ser Arg Gly Ala  
 100 105 110  
 Pro Gly Gln Lys Glu Leu Xaa Asn Cys Phe Gly Phe  
 115 120

<210> 7241  
 <211> 130  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> (20)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (39)  
 <223> Xaa equals any of the naturally occurring L-amino acids

## 6444

<220>  
<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (58)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (59)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (61)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (64)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (75)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (81)  
<223> Xaa equals any of the naturally occurring L-amino acids



## 6445

<220>  
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<222> (85)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (91)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (106)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (107)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (111)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (119)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (123)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (124)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (130)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7241  
Val Leu Pro Ser Pro Phe Glu Ser Pro Gly Pro Lys Arg Asn Lys Ser  
1 5 10 15

Trp Ser Ser Xaa Ala Val Ala Val Ala Leu Glu Leu Leu Asp Pro Pro  
20 25 30

## 6446

Gly Cys Met Asn Ser Ala Xaa Ala Ala Ser Ser Pro Gly Xaa Gln Ser  
                   35                                  40                                  45

Pro Xaa Ala Pro Ser Gly Tyr Ser Xaa Xaa Xaa Trp Xaa Ser Gly Xaa  
           50                                  55                                  60

Xaa Asp Ala Ala Arg Pro Pro Pro Thr Val Xaa Lys Ser Val Val Val  
   65                                  70                                  75                                  80

Xaa Gly Gly Ile Xaa Gly Val Thr Cys Ala Xaa Gln Ser Ala Thr Leu  
                                   85                                  90                                  95

Phe Pro Ser Glu Asp Ile Leu Leu Val Xaa Xaa Ser Pro Val Xaa Asn  
                   100                                  105                                  110

Glu Phe Gln Ile Ser Ser Xaa Phe Leu Tyr Xaa Xaa Asn Asn Ser Met  
           115                                  120                                  125

Phe Xaa  
       130

<210> 7242

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7242

Ile Ser Pro Phe Ser Glu Cys Leu Leu Lys Phe Met Pro Phe Phe Glu

**6447**

1	5	10	15
Tyr Gly Ser Trp Thr Pro Thr Leu Leu Leu Pro Thr Pro Pro Arg Asn			
	20	25	30
Phe Leu Ile Cys Xaa Val Phe Phe Xaa Val Phe Xaa Asn Ser Xaa Val			
	35	40	45
Ile Ile Leu His Asn Phe Gly Tyr			
	50	55	

&lt;210&gt; 7243

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7243

Val Glu Phe Phe Phe Phe Leu Lys Asn Xaa Leu Xaa Lys Ile Xaa
1 5 10 15

Pro Asn Thr Phe
20

&lt;210&gt; 7244

&lt;211&gt; 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6448

<220>  
 <221> SITE  
 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (15)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (58)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (59)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7244  
 Asp Phe Xaa Ala Arg Ile Pro Leu Arg Asn Xaa Ala Ser Leu Xaa Gly  
           1                  5                  10                  15  
 Lys Lys Xaa Glu Leu His Arg Gly Gly Gly Arg Ser Thr Thr Ser Gly  
                   20                  25                  30  
 Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Gly Asn Leu Val Met Ala  
           35                  40                  45  
 Val Val Xaa Glu His Pro Ala Phe Ala Xaa Xaa Pro Pro  
           50                  55                  60

<210> 7245  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

## 6449

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7245

Pro	Leu	Tyr	Leu	Leu	His	Asn	Glu	Leu	Thr	Arg	Asn	Asn	Phe	Ala	Arg
1				5					10					15	

Arg	Ala	Lys	Ala	Lys	Thr	Pro	Glu	Thr	Arg	Arg	Ala	Thr	Leu	Glu	Gln
			20					25					30		

Leu	Lys	Glu	His	Thr	Arg	Leu	Cys	Xaa	Lys	Ile	Val	Gly	Lys	Ile	Tyr
		35					40					45			

Arg	Leu	Lys	Arg	Gln	Thr	Tyr	Arg	Ala	Trp
	50					55			

&lt;210&gt; 7246

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 6450

&lt;221&gt; SITE

&lt;222&gt; (40)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7246

Phe	Tyr	Arg	Xaa	Ile	Ser	Asp	Ser	Met	Ile	Phe	Ser	Xaa	Val	Ile	Val
1				5					10					15	

Arg	Xaa	Met	Cys	Asn	Val	Xaa	Ile	Glu	Thr	Glu	Xaa	Tyr	Lys	Gly	Gln
			20					25					30		

Val	Thr	Cys	Gln	Cys	Asp	Met	Xaa	Arg	His	Ile	Tyr	Xaa	Xaa	Thr	Trp
		35					40					45			

Met	Phe	Leu	Asn	Leu	Tyr	Tyr
	50					55

&lt;210&gt; 7247

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 6451

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7247

Phe	Phe	Phe	Phe	Leu	Xaa	Xaa	Phe	Pro	Leu	Lys	Lys	Phe	Phe	Pro	Phe
1				5					10					15	

Pro	Pro	Xaa	Pro	Pro	Xaa	Phe	Pro	Phe	Leu	Asn	Ile	Ser	Lys	Pro
			20					25					30	

&lt;210&gt; 7248

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7248

Thr	Val	Ile	Leu	Lys	Lys	Met	Ser	Ile	Gly	Ile	Tyr	Phe	Arg	Glu	Asn
1				5					10					15	

Ile	Ser	Ile	Val	Xaa	Xaa	Leu	Pro	Pro	Pro	Xaa	Gly	Xaa	Glu	Gly	His
			20					25					30		

Xaa	Leu	Trp	Val	Leu
				35

## 6452

&lt;210&gt; 7249

&lt;211&gt; 62

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7249

Pro Leu Asn Thr Pro Gln Ser Gln Xaa Xaa Leu Leu Xaa Gln Cys Ile

1

5

10

15



## 6453

Lys Phe Ile Tyr Phe Xaa Xaa Pro His Thr Ile Leu Gly Pro Leu Lys  
                   20                                  25                                  30

Pro Met Val Lys Leu Ala Ala Leu Glu Leu Thr Xaa Asp Gln Ile Leu  
                   35                                  40                                  45

Thr Leu Leu Leu Ser Asn Ile Xaa Asn Trp Xaa Ile Ser Phe  
                   50                                  55                                  60

<210> 7250

<211> 53

<212> PRT

<213> Homo sapiens

<400> 7250

Asn Ser Asn Leu Thr Gly His Lys Tyr Thr Phe Gly Tyr Val Tyr Leu  
   1                                  5                                  10                                  15

Leu Leu Thr Lys Val Lys Arg Asn Val Leu Met His Ser Leu Asn Leu  
                   20                                  25                                  30

Lys Tyr Thr Tyr Ile Lys Phe Leu Lys Asp Ala Asn Leu Asn Pro Ile  
                   35                                  40                                  45

Leu Asn Glu Lys Val  
                   50

<210> 7251

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6454

<220>  
 <221> SITE  
 <222> (31)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7251  
 Xaa Glu Lys Asn Pro Ser Leu Lys Lys Pro Pro Pro Lys Lys Lys Lys  
           1                  5                  10                  15  
 Asn Cys Ser Leu Ser Pro Leu Leu Xaa Gln Lys Phe Xaa Gly Xaa Xaa  
                   20                  25                  30  
 Phe His Leu Cys Pro Pro Asn Phe Ser Xaa Phe Leu Val  
           35                  40                  45

<210> 7252  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (6)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (9)

## 6455

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6456

<220>  
<221> SITE  
<222> (24)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (60)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 6457

<220>  
 <221> SITE  
 <222> (64)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (66)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (67)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7252  
 Phe Xaa Val Xaa Asn Xaa Phe Tyr Xaa Xaa Xaa Xaa Xaa Leu Xaa Xaa  
     1                    5                    10                    15  
 Xaa Xaa Leu Xaa Xaa Pro Met Xaa Lys Pro Pro His Cys Thr Glu Leu  
                     20                    25                    30  
 Xaa Pro Xaa Gly Thr Xaa Ile Ile Ile Xaa Arg Val Xaa Xaa Phe Tyr  
             35                    40                    45  
 Gln Xaa Asn Leu Gln Ile Asn Ser Leu Gly Leu Xaa Pro Xaa Pro Xaa  
     50                    55                    60  
 Pro Xaa Xaa Ile Lys Xaa Lys Lys Lys Ser Xaa Leu Leu Glu Thr  
     65                    70                    75

<210> 7253  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (7)

## 6458

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6459

&lt;400&gt; 7253

Leu Asp Gln Lys Lys Ser Xaa Leu Phe Asp Leu Xaa Arg Xaa Asn Leu  
1 5 10 15

Pro Xaa Leu Tyr Thr His Val Cys Val Ser Leu Lys Arg Xaa Val Arg  
20 25 30

Leu Xaa Lys Ile Leu Ile Val Ile Asn His Val Xaa Thr Ser Cys Asn  
35 40 45

Glu Leu His Asp Leu Ile Leu Ser Leu Leu Ala Xaa Thr Thr Xaa Tyr  
50 55 60

Phe Ser Asn Xaa Xaa Ile Ser Pro  
65 70

&lt;210&gt; 7254

&lt;211&gt; 71

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 6460

&lt;222&gt; (47)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (54)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (68)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7254

Glu	Pro	His	Glu	Xaa	Xaa	Pro	Pro	Lys	Lys	Leu	Xaa	Asn	Asn	Ser	Phe
1				5					10					15	

Phe	Xaa	Lys	Lys	Gly	Glu	Ser	Trp	Leu	Val	Ala	Gln	Asn	Tyr	Phe	Lys
			20					25					30		

Asn	Ser	Ala	Pro	Xaa	Gly	Lys	Thr	Leu	Leu	Trp	Tyr	Phe	Ser	Xaa	Lys
		35					40					45			

Thr	Xaa	Tyr	His	His	Xaa	Leu	Xaa	Trp	Phe	Ser	Gln	Phe	His	Ser	Gln
	50					55					60				

Gly	Glu	Pro	Xaa	Pro	Ser	Cys
65					70	

&lt;210&gt; 7255

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids



## 6461

&lt;400&gt; 7255

Leu Thr Tyr Leu Leu Trp Phe Pro Ile Asn Asn Cys Ser Leu Leu Ile  
1 5 10 15

Ile Val His Val Phe Tyr Val Ala Ser Asn Lys Leu Arg Gln Ser Tyr  
20 25 30

Thr Ser Ala Phe Gln Xaa Gly Ser Leu Phe Leu His Thr  
35 40 45

&lt;210&gt; 7256

&lt;211&gt; 116

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6462

<220>  
<221> SITE  
<222> (24)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (48)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (56)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (63)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 6463

<220>  
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 <222> (73)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (74)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (86)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (90)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (94)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (102)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (107)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (111)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7256  
 Lys Glu Lys Xaa Glu Thr Xaa Xaa Arg Lys Xaa Tyr Phe Gly Leu Xaa  
 1 5 10 15  
 Xaa Leu Xaa Pro Ser Lys Asp Xaa Thr Leu Asn Leu Xaa Lys Lys Lys  
 20 25 30  
 Phe Gly Xaa Xaa Leu Ile Thr Ile Ile Xaa His Phe Thr Phe Xaa  
 35 40 45  
 Pro Gly Ser Leu Leu Xaa Phe Xaa Leu His Tyr Leu Pro Xaa Xaa Leu

**6464**

50                                      55                                      60  
 Tyr His Pro Leu Lys Lys Phe Leu Xaa Xaa Tyr Ile Phe Ile Leu Pro  
 65                                      70                                      75                                      80  
 Phe Tyr Thr Lys Arg Xaa Asn Ser Gly Xaa Leu Val Gly Xaa Asn Pro  
 85                                      90                                      95  
 Leu Phe Ile Pro Pro Xaa Pro Phe Trp Glu Xaa Phe Lys Gly Xaa Lys  
 100                                      105                                      110  
 Gly Phe Phe Leu  
 115

&lt;210&gt; 7257

&lt;211&gt; 50

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7257

Ile Met Gly Leu Ser Leu Pro Tyr Ile Phe Leu Leu Lys Ser Ile Leu  
 1                                      5                                      10                                      15

Xaa Gln Cys Arg Leu Ile Ile Tyr Asn Leu Ile Tyr Met Asn Ser Leu  
 20                                      25                                      30

Xaa His Pro Ser Phe Ile Leu Thr Ile Ile Val Tyr Met Xaa Xaa Ile  
 35                                      40                                      45

6465

Pro Asn  
50

<210> 7258  
<211> 25  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7258  
Gly Lys Lys Glu Val Ala Pro Xaa Ser Glu Xaa Phe Ser Ile Thr Gly  
1 5 10 15

Ala Ile Arg Gly Ala Gly Xaa Thr Ser  
20 25

<210> 7259  
<211> 78  
<212> PRT  
<213> Homo sapiens

<220>  
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<220>  
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<220>  
<221> SITE

## 6466

<222> (35)  
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<220>  
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 <223> Xaa equals any of the naturally occurring L-amino acids

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 <223> Xaa equals any of the naturally occurring L-amino acids

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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (61)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (63)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7259  
 Trp Ser Met Xaa Tyr Leu Gln Trp Asn Ile Gly Leu Gly Ile Phe Pro  
 1 5 10 15  
 Glu His Tyr Gln Val Ser Gly Trp Trp Glu Gly Trp Xaa Lys Pro Ile  
 20 25 30  
 Pro Leu Xaa Leu Xaa Lys Xaa Leu Val Xaa Ala Gly Leu Trp Leu Xaa  
 35 40 45  
 Leu Glu Ser Gly Leu Asn Pro Pro Tyr Xaa Gly Gly Xaa Trp Xaa Gly  
 50 55 60

## 6467

Lys Asn Gln Glu Asn Phe Val Pro Phe Pro Pro Trp Gly Ser  
 65 70 75

<210> 7260

<211> 33

<212> PRT

<213> Homo sapiens

<220>

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<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7260

Gln Asn Pro Ser Cys Xaa Ser Xaa His Leu Leu Xaa His Phe Asp His  
 1 5 10 15

Leu Ala Ser Xaa Ala Arg His Thr Arg Xaa Arg Leu Arg Leu Ser Gln  
 20 25 30

Lys

<210> 7261

<211> 76

<212> PRT

<213> Homo sapiens

## 6468

<220>  
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 <222> (1)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (47)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (60)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (66)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7261  
 Xaa Arg His Ala Leu Val Gly Ala Ile Cys Asp Pro Lys Asn Ser Thr  
           1                  5                  10                  15  
 Phe Thr Ser Val Trp Leu Ile Leu Asn His Ser Ser Leu Cys Thr Tyr  
                   20                  25                  30  
 Ile His Thr His Thr His Ser Gly Leu Thr Gln Lys Lys Lys Xaa Ile  
           35                  40                  45  
 Gln Thr Leu Gln Asn Tyr Pro Ser Phe Leu Tyr Xaa Leu Cys Arg Phe  
           50                  55                  60  
 Met Xaa Thr Thr Cys Asn Cys His Asn Pro Xaa Gly  
           65                  70                  75

<210> 7262  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE



## 6469

<222> (1)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
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 <223> Xaa equals any of the naturally occurring L-amino acids  
  
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 <222> (26)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
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 <222> (28)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 7262  
 Xaa Ser Asn Pro Pro Pro Pro Leu Gly Lys Xaa Ala Gly Ala Arg Arg  
   1                  5                  10                  15  
  
 Gly Trp Thr Xaa Leu Xaa Leu Thr Gly Xaa Ser Xaa Gly Leu Ala Arg  
                   20                  25                  30  
  
 Leu

<210> 7263  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>

## 6470

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<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (27)  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<220>  
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<220>  
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## 6471

<222> (37)  
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 <222> (40)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
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 <222> (48)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (56)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 7263  
 Tyr Xaa Asn Met Gly Thr Arg Thr Xaa Gly Lys Gln Ile Xaa Thr Glu  
 1 5 10 15  
 Xaa Ser Xaa Pro Xaa Ser Xaa Phe Leu Ser Xaa Ser Leu Ile Xaa Xaa  
 20 25 30  
 Phe Ile Ile Xaa Xaa Ile Pro Xaa Val Leu Ser Met Leu Ile Xaa Xaa  
 35 40 45  
 Ser Trp Ser Leu Thr Pro Pro Xaa Ile Lys Ser Phe Gly Ile Ile Tyr  
 50 55 60  
 Asn Leu Leu Pro Xaa Phe Tyr Ser  
 65 70  
  
 <210> 7264  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

## 6472

<220>  
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 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (29)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (31)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7264  
 Leu Glu Ala Asp Gly Ala Val Xaa Asn Ser Cys Arg Ala Leu Lys Gly  
     1                    5                    10                    15  
 Glu Xaa Ala Asp Leu Gln Xaa Glu Gly Lys Xaa Leu Xaa Leu Xaa Gly  
                     20                    25                    30  
 Pro Cys Xaa Phe Leu Pro Pro Phe Pro Gln Pro Tyr Ser Cys Pro Pro  
                     35                    40                    45  
 Leu Lys Phe His  
                     50

<210> 7265

## 6473

<211> 64  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 6474

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (52)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7265

Pro	Gly	Leu	Lys	Ile	Thr	Ile	Asn	Lys	Xaa	Thr	Ala	Xaa	Lys	Leu	Arg
1				5					10					15	

Leu	Cys	Xaa	Ile	Thr	Ser	Xaa	Xaa	Xaa	Leu	Pro	Leu	Asp	His	Thr	Xaa
			20					25					30		

Xaa	Xaa	Trp	Ile	Ala	Lys	Xaa	Asp	Cys	Pro	Leu	Tyr	Asn	Gly	Gly	Xaa
		35					40					45			

Ile	Xaa	Leu	Xaa	Xaa	Leu	Asn	Asp	Gln	Glu	Gln	Phe	Cys	Gln	Asn	Val
		50				55					60				

&lt;210&gt; 7266

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6475

<220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7266  
 Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg  
           1                  5                  10                  15  
 Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Ala Val Leu Gly Lys  
                   20                  25                  30  
 Thr Gln Xaa Pro Xaa Xaa  
                   35

<210> 7267  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> (15)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7267  
 Pro Ser Thr Lys Pro Ser Cys Phe Gly Ala Asn Trp His Leu Xaa Pro  
           1                  5                  10                  15  
 Phe Gly Gly Ser Asp Lys Gln Ile Lys Leu Gln Leu Ala Val Gln Asp  
                   20                  25                  30  
 Ser Ala Arg Cys Leu His Leu Leu Leu Val Glu Ser Lys Pro Cys Ala  
                   35                  40                  45  
 Pro Phe Gln Ser Lys Ile Lys Gly Thr Gly Ile Phe Leu Glu Lys Lys  
           50                  55                  60  
 Xaa Ile

6476

65

<210> 7268  
<211> 66  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
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<220>  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7268  
Phe Leu Asn Leu Thr Leu Arg Xaa Lys Met Glu Leu Xaa Ala Val Xaa



## 6477

1	5	10	15
Asp Ala Leu Gln Leu Val Asp Pro Pro Gly Cys Arg Xaa Xaa Gly Thr	20	25	30
Arg Leu Phe Cys Ala Pro Val Leu His His Xaa Ser Met Ser Gln Val	35	40	45
Ile Met Phe Phe Cys Thr Arg Xaa Leu Gly Met Gln Arg Xaa Leu Glu	50	55	60
Leu Thr	65		

&lt;210&gt; 7269

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7269

Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Ser Glu Ser Tyr	1	5	10	15
Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Leu Asp Trp Glu Asn Ser	20	25	30	
Cys Leu Xaa Asp Pro Xaa Asn His His Met Xaa Ile Pro Ile Xaa Thr	35	40	45	

6478

<210> 7270  
<211> 20  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7270  
Tyr Xaa Xaa Xaa Thr Leu Cys Gly Leu Cys Leu Gln Ser Ser Arg Lys  
1 5 10 15

Xaa Lys Val Arg  
20

<210> 7271  
<211> 101  
<212> PRT  
<213> Homo sapiens

<220>  
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<220>  
<221> SITE

## 6479

<222> (39)  
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<220>  
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<220>  
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 <222> (70)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (84)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (99)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7271  
 Leu Val Val Lys Tyr Ser Asp Ile Arg His Ser Pro Arg His Val Leu  
 1 5 10 15  
 His Thr Cys Thr His Thr Met Ser His Arg Gly His Thr Val Phe Arg  
 20 25 30  
 Ile Val Thr Ile Xaa Arg Xaa Ser Leu Leu Trp Tyr Met Leu Lys Tyr  
 35 40 45  
 Leu Leu Phe Trp Ala Lys Ala Pro Arg Gln Xaa Leu Leu Ile Met Val  
 50 55 60

## 6480

Ala Gly Lys Arg Gly Xaa Glu Lys Arg Pro Gly Gln Val Lys Thr Xaa  
 65 70 75 80

Phe Xaa Gln Xaa Leu Asn Ser Cys Leu Gln Xaa Trp Ala Glu Lys Gly  
 85 90 95

Arg Lys Xaa Ser Phe  
 100

<210> 7272

<211> 26

<212> PRT

<213> Homo sapiens

<400> 7272

Asn Lys Leu Ile Val Asn Ile Leu Pro Lys Arg Ile Ser Ile Arg Tyr  
 1 5 10 15

Ile Asn Leu Leu Met Asp Ser Gln Thr Met  
 20 25

<210> 7273

<211> 37

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

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<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7273

Ala Ala Arg Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile  
 1 5 10 15

Val Ser Arg Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr  
 20 25 30

6481

Gly Xaa Pro Xaa Xaa  
35

<210> 7274

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

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<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7274

Leu	Thr	Cys	Ser	Glu	Thr	Gly	Ala	Ala	Ser	Leu	Leu	Arg	Ala	Gly	Pro
1				5					10					15	

Gly	Ser	Ser	Ser	Phe	Arg	Thr	Glu	Arg	Leu	Phe	Gln	Phe	Gly	Ser	Leu
			20					25					30		

Glu	Lys	Glu	Lys	Xaa	His	Phe	Xaa	Lys	Phe	Pro	Asn	Glu	Thr	Lys	Lys
		35					40					45			

Pro	Pro	Pro	Phe	Ser	Xaa	Pro	Cys	Ser	Thr	Ala	His	Xaa
		50				55					60	

<210> 7275

<211> 38

<212> PRT

<213> Homo sapiens

## 6482

<220>  
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<222> (9)  
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<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
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<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7275  
Ala His Gly Ile Lys Gln Thr Ser Xaa Tyr Ile Pro Xaa Tyr Pro Arg  
1 5 10 15  
Ile Phe Leu Lys Leu Met Cys Leu Ser His Ala Phe Asn His Phe Xaa  
20 25 30  
His Leu Lys Thr Xaa Xaa  
35

<210> 7276  
<211> 43  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 6483

&lt;400&gt; 7276

Ala Ala Arg Ala Ala Arg Ala Ala Arg Ala Ala Arg Gly Gly Ala Arg  
1 5 10 15  
Tyr Pro Ile Arg Pro Ile Val Ser Arg Ile Thr Ile His Trp Pro Ser  
20 25 30  
Phe Tyr Asn Val Val Thr Gly Xaa Pro Lys Xaa  
35 40

&lt;210&gt; 7277

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7277

Xaa Phe Leu Ile Leu Leu Leu Leu Ala Pro Ser Val Xaa Ile Asn Tyr  
1 5 10 15

Ile Phe Leu His Gln Ile Phe Tyr Thr Ile Arg Phe Phe Asp Xaa Lys  
20 25 30

Ile Ile Phe Ser Phe Thr Leu Leu Ile Ser Glu Gly His Lys Ile Lys  
35 40 45

Tyr Phe Leu Val His Asp Xaa Xaa Ser Leu Leu Xaa  
50 55 60

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

Leu Asn Asn Ile Lys Ser His Val Lys Gly Pro Phe Ala Ser Val Pro  
1 5 10 15

Phe Thr Gln Tyr Ile Thr Phe Ser Phe Gln Gln Lys Lys Leu Xaa Gly  
20 25 30

Ile Leu Lys Gly Gln Lys Asn Ser Leu Lys Xaa Asp Ser Lys Gln Xaa  
35 40 45



## 6485

Asp Lys Thr Xaa Ile Trp Arg Lys Met Leu Lys Ser Ser Asp Trp Lys  
50 55 60

Phe Xaa Thr  
65

<210> 7279  
<211> 33  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (20)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7279  
Thr Cys Xaa Ser Lys Xaa Gly Pro Xaa Lys Asn Xaa Arg Leu Asn Leu

## 6486

1	5	10	15
Tyr Arg Gly Xaa Gly Arg Phe Lys Ile Xaa Gly Ser Pro Gly Xaa Lys			
	20	25	30

Glu

&lt;210&gt; 7280

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7280

Lys Gly Lys Leu Asn Ile Ala Lys Lys Lys Lys Gly Phe Lys Xaa Gly
1 5 10 15

Ala Xaa Gly Xaa Pro Phe Xaa Ser
20

&lt;210&gt; 7281

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 7281

His Val Ser Ser Phe Arg Lys Gln Leu Tyr Cys His Thr Ile Val Gly

## 6487

1                      5                      10                      15  
 Arg Lys Thr Phe Ile Trp Asn Ile His Tyr Cys Lys Phe Val Gln Ile  
                     20                      25                      30  
 Ile Tyr Leu Pro Pro Val Phe Ala  
                     35                      40

&lt;210&gt; 7282

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7282

Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg  
 1                      5                      10                      15

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Thr  
                     20                      25                      30

Gln Xaa Xaa Xaa  
 35

&lt;210&gt; 7283

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 7283

Thr Val Pro Pro Cys Leu Pro Ala Phe Ala Glu Leu Glu Leu Ser Leu  
 1                      5                      10                      15

## 6488

Ser Ala Cys Ser Thr Tyr Thr Leu Pro Val His Trp Leu Ser Asn Arg  
20 25 30

Phe Lys Glu Arg Ser  
35

<210> 7284

<211> 19

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7284

Ala Ser Phe Phe Phe Phe Phe Phe Leu Asn Leu Xaa Asp Xaa Phe Phe  
1 5 10 15

Xaa Xaa Phe

<210> 7285

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

6489

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7285

Trp	Ile	Ser	Ser	Leu	Val	Leu	Asn	Glu	Gly	Gln	Val	Trp	Leu	Ala	Val
1				5					10					15	

Xaa	Arg	His	Ser	Phe	His	Gly	Gly	Arg	Leu	Ala	Ala	Asn	Arg	Gln	Ala
			20					25					30		

Gly	Pro	Lys	His	Ser	Gly	Leu	Leu	Lys	Ala	Gly	Gly	Val	His	Xaa	Asp
		35					40					45			

Ser	Cys	Trp	Arg	Ala	Val	Glu	Leu	Phe	Pro	Gly	Ile	Arg	Phe	Gly	Phe
	50					55					60				

Ser	Gly	Thr	Ile	Pro	Xaa
65					70

&lt;210&gt; 7286

&lt;211&gt; 98

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 6490

&lt;222&gt; (58)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (74)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (75)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (87)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7286

Val	Ser	Ile	Lys	Asn	Gly	Phe	Leu	Leu	Ser	Ala	Pro	Met	Xaa	Gly	Ser
1				5					10					15	

Val	Cys	Gly	Val	Thr	Ser	Gln	Cys	Arg	Ser	Phe	Ser	Trp	Ser	Pro	Asp
			20					25					30		

Cys	Ser	Leu	Ile	Pro	Asp	Gln	Gly	Leu	Val	Xaa	Phe	Lys	Asn	Ser	Ser
		35					40					45			

Met	Ala	Xaa	Asn	Ala	Trp	Leu	Val	Gln	Xaa	Glu	Cys	Phe	Phe	His	Lys
	50					55					60				

Xaa	Ser	Ser	Ser	Pro	Val	Phe	Thr	His	Xaa	Xaa	Ile	Pro	His	Ser	Phe
65					70					75					80

Pro	Thr	Lys	Ser	Thr	Pro	Xaa	Gly	Cys	Cys	Leu	Pro	Tyr	Phe	Pro	Asn
				85					90					95	

Phe Pro

&lt;210&gt; 7287

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

6491

<220>  
 <221> SITE  
 <222> (21)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (29)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (50)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (57)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7287  
 Leu Tyr Leu Leu Lys His Val His Leu His Ile Phe Thr Gly Leu Leu  
           1                  5                  10                  15  
 Thr Val His Phe Xaa Ser Ser Arg Lys Trp His Gln Xaa Gly Ser Thr  
                   20                  25                  30  
 Lys Asn Met Ile Thr Lys Asn Ile Ile Ile Ile Pro Phe Xaa Lys Thr  
           35                  40                  45  
 Xaa Xaa Pro Arg Leu Pro Asn Phe Xaa  
           50                  55

<210> 7288  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

## 6492

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7288  
Leu Val Ser Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Ser Glu Ser  
1 5 10 15  
Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn  
20 25 30  
Pro Ser Xaa Xaa Phe Phe Ser Xaa Ala  
35 40

<210> 7289  
<211> 21  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids



## 6493

&lt;400&gt; 7289

Cys Glu Ala Ser Trp Xaa Leu Cys Xaa Gly Lys Trp Tyr Gln Xaa Thr  
1 5 10 15

Ala Trp Pro Pro Xaa  
20

&lt;210&gt; 7290

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7290

Glu Asn Thr Glu Cys Val His Gln Ile Leu Ser Ala Ala Val Xaa Phe  
1 5 10 15

Cys Leu Leu Phe Xaa Leu Ser Ser Asp Val Thr Phe Ile Lys Asp Asn  
20 25 30

Pro Leu Arg Thr Leu Phe Tyr Phe Leu Thr Asn Gln Asn Val Val Phe  
35 40 45

Lys

&lt;210&gt; 7291

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 6494

<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7291  
Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg  
1 5 10 15  
Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Xaa Thr Gly Lys Pro  
20 25 30  
Xaa Xaa

<210> 7292  
<211> 34  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7292  
Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Xaa Xaa Arg  
1 5 10 15  
Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Phe Val Thr Gly Thr Pro  
20 25 30  
Lys Xaa

## 6495

<210> 7293  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (15)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (33)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7293  
 Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Xaa Xaa Arg  
     1                    5                    10                    15  
 Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Pro  
                     20                    25                    30

Xaa Xaa

<210> 7294  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE

## 6496

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7294

Val	Ile	Xaa	Ser	Leu	Lys	Ser	Thr	Phe	Lys	Ala	Phe	Gln	Ile	Lys	Lys
1				5				10					15		

Ser	Asn	Leu	Thr	Asn	Cys	Ser	Leu	Leu	Ile	Ser	Xaa	Asn	Glu	Ile	Met
			20					25					30		

Asn	Val	Leu	Ala
			35

&lt;210&gt; 7295

&lt;211&gt; 18

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7295

Ala	Ser	Leu	Glu	Phe	Phe	Phe	Phe	Phe	Phe	Lys	Xaa	Xaa	Xaa	Xaa	Asn
1				5				10					15		

Xaa Asn

6497

&lt;210&gt; 7296

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7296

Arg	Lys	Trp	Ala	Ala	Trp	Ile	Ser	His	His	Pro	Met	Ser	Ala	Ala	Ala
1				5					10					15	

Gln	Val	Ser	Leu	Thr	Val	Ser	Trp	Val	Cys	Gly	Gly	Asp	Trp	Gly	Val
			20					25					30		

Arg	Lys	Gly	Trp	Xaa	Gly	Xaa	Leu	Lys	Arg	Lys	Gln	Leu	Gln	Pro	Glu
		35					40					45			

Ala	Gln	Thr	Gly	Cys	Arg	Val	Thr	Pro	Ser	Ser	His	Leu	Glu	Ser	Trp
	50					55					60				

Thr	Pro	Pro	Thr	Leu	Ile	His	Pro	Val	Pro	Gln	Pro
65					70					75	

&lt;210&gt; 7297

&lt;211&gt; 35

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6498

&lt;400&gt; 7297

Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg  
1 5 10 15

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Thr  
20 25 30

Gln Xaa Xaa  
35

&lt;210&gt; 7298

&lt;211&gt; 84

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6499

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (56)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (57)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (58)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (73)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (79)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (84)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7298

Lys Asn Pro Lys Pro Leu Pro Val Val Leu Tyr Tyr Asn Cys Leu Asn  
 1 5 10 15

Trp Gly Xaa Xaa Thr Pro Pro Cys Phe Pro Phe Xaa Pro Gln Ile Xaa  
 20 25 30

Xaa Leu His Phe Leu Leu Gly Ser Gln Phe Xaa Lys Ile Pro His Xaa  
 35 40 45

Lys Phe Xaa His Trp Ala Pro Xaa Xaa Xaa Lys Thr Pro Ile Ser His  
 50 55 60

Ser Leu Glu Gly Leu Glu Lys Thr Xaa Gly Lys Phe Leu Glu Xaa Asn  
 65 70 75 80

## 6500

Pro Phe Phe Xaa

<210> 7299

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

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<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7299

Ile	Cys	Ala	Arg	Phe	Val	Lys	Ile	Thr	Leu	Phe	Leu	Lys	Leu	Phe	Xaa
1					5				10					15	

Gln	Val	Ser	Leu	Pro	His	Ala	Tyr	Xaa	Pro	Lys	Xaa	Leu	Gly	Ile	Lys
			20					25					30		

Gly	Leu	Thr	Thr	Ala	Pro	Gly	Gln	Ile	Pro	Val	Pro	Phe	Pro	Lys	Lys
			35				40					45			



## 6501

Thr Pro Asn Leu Thr Leu Glu Leu Ile Gln Phe Xaa Pro Xaa Phe Ile  
50 55 60

Leu Lys Leu Xaa  
65

<210> 7300

<211> 46

<212> PRT

<213> Homo sapiens

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7300

Trp Ile Ile Glu Phe Tyr Leu Xaa Lys Glu Lys Leu His Glu Lys His  
1 5 10 15

Ile Ser Lys Phe Lys Asn Lys Glu Ser Lys Ser Thr Ser Thr Ser Thr  
20 25 30

Cys Leu Ile Ile Pro Thr Phe His Leu Ile Ser Ile Tyr Ile  
35 40 45

<210> 7301

<211> 81

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## 6502

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 <400> 7301  
 Pro His Thr Arg Ala Leu Thr Glu Xaa Met Pro Arg His Leu Cys Pro  
 1 5 10 15  
 Val Ser Phe Ile Pro Xaa Xaa Val Cys Leu Lys Ile Phe Pro Gln Pro  
 20 25 30  
 Glu Ser Phe Pro Asn His Leu Xaa Lys Lys Xaa Tyr Ala Ser Leu Xaa  
 35 40 45  
 Thr Leu Leu Arg Thr Gln Leu Leu Leu Lys Ala Ser Ala Thr Ser  
 50 55 60  
 Xaa Xaa Pro Pro Lys Leu Lys Xaa Ser Ala Phe Ser Gly Gly Pro Gly  
 65 70 75 80  
 Xaa

## 6503

<210> 7302  
<211> 115  
<212> PRT  
<213> Homo sapiens

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## 6504

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7302

Gln	Tyr	Val	Thr	Gly	Ala	Pro	Phe	Val	Ser	Ile	His	Lys	Glu	Leu	Leu
1				5					10					15	

Xaa	Leu	Cys	Tyr	Ser	Xaa	Thr	Met	Xaa	Met	Phe	His	Ser	Leu	Thr	Ser
			20					25					30		

Pro	Val	Pro	Xaa	Xaa	Trp	Ile	Pro	Tyr	Xaa	Tyr	Cys	Xaa	Gln	Val	Leu
		35					40					45			

Gln	Ser	Val	Thr	Cys	Val	Ile	Ser	Xaa	Phe	Xaa	Ser	Cys	Cys	Xaa	Phe
	50					55					60				

Ile	Tyr	Xaa	Ile	Asn	Xaa	Pro	Lys	Ile	Asn	Trp	Cys	Val	Xaa	Xaa	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

[illegible]

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

Gln Xaa Xaa Xaa  
35

<210> 7304

## 6507

<211> 82  
<212> PRT  
<213> Homo sapiens

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## 6508

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<220>  
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 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7304  
 Ser Ser Phe Leu Xaa Xaa Xaa Ile Tyr Lys Trp Asp Xaa Met Thr Gly  
 1 5 10 15  
 Tyr Xaa Gln Xaa Xaa Asn Xaa Xaa Xaa Gly Thr Xaa His Ile Cys Asn  
 20 25 30  
 Pro Lys Trp Ala Ala Leu Lys Xaa Ser Phe Ala Val Lys Ser Gln Cys  
 35 40 45  
 Pro His Xaa Lys Xaa Ser Ser Gly Leu Gln Leu Ile Tyr Ser Cys Pro  
 50 55 60



## 6509

Xaa Cys Ser Ser Leu Ala Pro Leu Asn Val Leu His Lys Xaa Gly Xaa  
65 70 75 80

Trp Ala

<210> 7305

<211> 102

<212> PRT

<213> Homo sapiens

<220>

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<222> (9)

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<220>

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<220>

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<222> (19)

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## 6510

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<222> (67)

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<222> (85)

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<220>

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<400> 7305

Asp	Lys	Ile	Leu	Phe	Ile	Gly	Pro	Xaa	Ile	Tyr	Trp	Leu	Trp	Gly	Leu
1				5					10					15	

Val	Xaa	Xaa	Leu	Arg	Glu	Arg	Pro	Thr	Leu	Lys	His	Xaa	Pro	Met	Cys
			20					25					30		

Trp	Asp	Val	His	Arg	Met	Xaa	Ser	Xaa	Pro	Arg	Xaa	Leu	Ser	Tyr	Leu
		35					40					45			

Gly	Xaa	Xaa	Lys	Pro	Pro	Leu	Trp	Ala	His	Leu	Val	His	Phe	Xaa	Asn
	50					55					60				

Pro	Leu	Xaa	Pro	Xaa	Lys	Gly	Phe	Phe	Pro	Arg	Phe	Pro	Lys	Gly	Pro
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

6511

65                      70                      75                      80

Pro Xaa Gly Val Xaa Xaa Pro Ser Lys His Lys Gly Pro Ala Leu Ile  
                                85                      90                      95

Asn Leu Glu Val Gly Asn  
                                100

<210> 7306

<211> 34

<212> PRT

<213> Homo sapiens

<220>

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<222> (15)

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 $\langle 220 \rangle$ 

&lt;221&gt; SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$  (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7306

Gly Pro Gly Arg Phe Pro Ile Leu Gly Arg Lys Lys Lys Asn Xaa Trp  
1 5 10 15

Xaa Pro Phe Lys Lys Thr Xaa Ser Leu Lys Lys Lys Asn Phe Xaa Xaa  
20 25 30

Gly Lys

## 6512

<210> 7307

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7307

Ala	Ala	Arg	Gly	Gly	Ala	Arg	Tyr	Pro	Ile	Arg	Pro	Ile	Val	Ser	Arg
1				5				10					15		

Ile	Thr	Ile	His	Trp	Pro	Ser	Phe	Tyr	Asn	Val	Val	Thr	Gly	Lys	Thr
			20					25					30		

Gln Xaa

<210> 7308

<211> 102

<212> PRT

<213> Homo sapiens

<220>

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<222> (1)

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## 6513

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<222> (53)

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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7308

Xaa	Thr	Xaa	Leu	Thr	Ser	Ser	Pro	Cys	Trp	Pro	Leu	Glu	Gly	Ser	Val
1				5					10					15	

Lys	Arg	Lys	Gly	Lys	Pro	Ser	Leu	Leu	Glu	Leu	Pro	Phe	Gly	Ile	Pro
			20					25					30		

Pro	Arg	Leu	Asn	Phe	Xaa	Thr	Pro	Cys	Phe	Ile	Xaa	Xaa	Ile	Thr	Pro
		35					40					45			

Xaa	Pro	Ile	Xaa	Xaa	Asn	Pro	Asn	Phe	Glu	Pro	Phe	Ile	Cys	His	Gln
	50					55					60				

Lys	Lys	Pro	Phe	Phe	Tyr	Leu	Pro	Thr	Ile	Ser	Gln	Xaa	Pro	Arg	Phe
65					70					75				80	

Glu	Thr	Ser	Xaa	Ile	Pro	Asn	Leu	Gln	Leu	Ser	Leu	His	Arg	Xaa	Ile
				85					90					95	

6514

Phe Pro Asn Leu Leu Cys  
100

&lt;210&gt; 7309

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7309

Gly	Gln	Xaa	Xaa	Arg	Ile	Pro	Gly	Cys	Ala	Ile	Pro	Xaa	Cys	Xaa	Gly
1				5					10					15	

Leu Leu Gly Xaa Ser Tyr Phe  
20

&lt;210&gt; 7310

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

## 6515

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<220>  
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<400> 7310  
Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Xaa Pro Ile Val Ser Xaa  
1 5 10 15  
Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Thr  
20 25 30  
Gln Asn Xaa Xaa Xaa  
35

<210> 7311  
<211> 38  
<212> PRT  
<213> Homo sapiens

<220>  
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<220>

## 6516

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7311

Ala Ala Arg Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile  
1 5 10 15

Val Ser Arg Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Xaa Val Thr  
20 25 30

Gly Lys Thr Xaa Gly Xaa  
35

&lt;210&gt; 7312

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids



## 6517

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<220>  
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1 5 10 15  
Asp Ser Xaa Tyr Arg Cys Xaa Gly Tyr Asn Val Arg Leu Leu Ala Leu  
20 25 30  
Glu Ile Ala His Gly Leu Ser Ser Ser Leu Gln Ser Xaa Xaa Leu Val  
35 40 45  
Asp Gln Lys Cys Xaa Ser Asp Ile Glu Xaa Xaa Lys  
50 55 60

<210> 7313  
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<212> PRT  
<213> Homo sapiens

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<222> (34)  
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## 6519

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 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 7313  
 Xaa Thr Gly Leu Met Xaa Asn Ser Asn Val Arg Leu Thr Glu Thr Asp  
   1                  5                  10                  15  
  
 Pro Pro Gly Ile Tyr Pro Asp Phe Lys Arg Xaa Pro Xaa Pro Xaa Xaa  
           20                  25                  30  
  
 Asn Xaa Xaa Ile Trp Leu Ser Xaa Xaa Pro Xaa Gln Tyr Trp Ile Trp

## 6520

	35		40		45														
Xaa	Ser	Pro	Asn	Pro	Thr	Xaa	Ile	Met	Ala	Xaa	Thr	Xaa	Ala	Val	Gly				
	50						55				60								
Ile	Xaa	Ile	Gly	Gly	Pro	Xaa	Xaa	Leu	Phe	Xaa	Xaa	Ile	Pro	Gly	Ser				
	65				70					75					80				
Xaa	Ala	Lys	Phe	Pro	Trp	Gly	Trp	Gly	Asn	Gln	Xaa	Pro	Cys	Cys	Leu				
				85					90					95					

Lys Asn

<210> 7314

<211> 127

<212> PRT

<213> Homo sapiens

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## 6521

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<220>

## 6522

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 <223> Xaa equals any of the naturally occurring L-amino acids  
  
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 <222> (117)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
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 <222> (121)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 7314  
 Thr Ser Xaa Xaa Glu Met Leu Ala Glu Met Lys Gly Cys Cys Gln Cys  
 1 5 10 15  
 Asn Ala His Gly Gly Ala Leu Gln Val Ser Ala Xaa Pro Xaa Pro Ala  
 20 25 30  
 Ser Pro Ala Leu Leu Ser Gln Ala Xaa Xaa Arg Arg Gly Thr Leu Xaa  
 35 40 45  
 Thr Pro Ser Leu Gly Ser Xaa Xaa Ile Gly His Lys Ser Leu Xaa Cys  
 50 55 60  
 Xaa Gly Xaa Ala Gln Val His Ile Xaa Glu His Leu Xaa Met Xaa Leu  
 65 70 75 80  
 Gly Glu Pro Ser Ala Gln Pro Thr Ser Gly Lys Asn Lys Phe Trp Gly  
 85 90 95  
 His Gly Ala Pro Lys Lys Thr Xaa Ile Glu Tyr Phe Cys Leu Phe Xaa  
 100 105 110  
 Ser Ala Xaa His Xaa Lys Leu Pro Xaa Glu Asn Phe Leu Gln Thr  
 115 120 125  
  
 <210> 7315  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

## 6523

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<220>  
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<220>  
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<400> 7315  
 Ser Val Asp Ser Lys Gly Thr Phe Cys Leu Phe Gln Leu Lys Leu Lys  
     1                    5                    10                    15  
 Leu Gln Phe Lys Met Lys Ser Val Ser Phe Phe Leu Tyr Phe Ser Ala  
                     20                    25                    30  
 Lys Gln Asp Ala Thr Leu Xaa Leu Pro Pro Leu Thr Ile Asn Arg Xaa  
             35                    40                    45  
 His Ser Gly Leu Lys Ala Ala Pro Pro Phe Asn Leu Xaa Ile Trp Gln  
       50                    55                    60  
 Thr Xaa Ser Leu Glu Xaa Asn Ser Ala Xaa Ile Phe Phe Leu Asn  
     65                    70                    75

<210> 7316  
 <211> 45  
 <212> PRT

## 6524

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7316

Ser	Ser	Ser	His	Leu	Ser	Gln	Leu	Asn	Asn	Val	Thr	Pro	Pro	Pro	Leu
1				5				10						15	

Pro	Leu	Lys	Ile	Cys	Leu	Leu	Tyr	Phe	Tyr	Leu	Arg	Phe	Lys	Ser	Gly
			20					25					30		

Phe	Phe	Tyr	Glu	Ser	Leu	Val	Xaa	Ser	Ser	Xaa	Leu	Tyr
		35					40					45

<210> 7317

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7317

Ala	Ala	Arg	Ala	Ala	Arg	Gly	Gly	Ala	Arg	Tyr	Pro	Ile	Arg	Pro	Ile
1				5				10						15	

Val	Ser	Arg	Ile	Thr	Ile	His	Trp	Pro	Ser	Phe	Tyr	Asn	Val	Val	Thr
			20					25					30		



## 6525

Gly Lys Thr Xaa Xaa Xaa  
35

<210> 7318

<211> 19

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7318

Gly Thr Arg Val Cys Phe Phe Phe Lys Xaa Gly Leu Xaa Phe Xaa Gly  
1 5 10 15

Xaa Arg Xaa

<210> 7319

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

## 6526

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7319

Ala	Ala	Arg	Gly	Gly	Ala	Arg	Tyr	Pro	Ile	Arg	Pro	Ile	Val	Ser	Arg
1				5					10					15	

Ile	Thr	Ile	His	Trp	Pro	Ser	Phe	Tyr	Asn	Val	Val	Thr	Gly	Asn	Pro
			20					25						30	

Xaa	Xaa	Xaa
		35

&lt;210&gt; 7320

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 7320

Ala	Lys	Met	Arg	Ile	Thr	Ile	Pro	Asn	Val	Lys	Pro	Gly	Leu	Glu	Thr
1				5					10					15	

Ala	Val	Leu	Ala	Gln	Phe	Ser	Ile	Ser	Ser	Gln	Cys	Tyr	Asn	Leu	Ile
			20					25						30	

Pro	Ser	Leu	Val	Arg	Lys	Leu	Asn	Lys	Met	Asp	Ser	Leu	Arg	Phe	Pro
		35					40					45			

Val	Arg	Ile
		50

&lt;210&gt; 7321

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

## 6527

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7321

Lys	Xaa	Val	Met	Glu	Thr	Phe	His	Met	Lys	Pro	Ser	Leu	Thr	Glu	Ile
1					5				10					15	

Thr	Leu	Leu	Leu	Asn	Asn	Ser	Xaa	Asn	Phe	His	Leu	Gln	Ser	Val	Trp
				20				25						30	

Asn	Phe	Met	Xaa	Val	Xaa	Glu	Ser	His	Leu	Xaa	Gln	Cys	Leu	Ile	Thr
		35						40				45			

Ser	Leu	Pro
		50

&lt;210&gt; 7322

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 6528

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7322

Lys	Val	Tyr	Lys	Arg	Trp	Xaa	Leu	His	Arg	Gly	Pro	Arg	Lys	Asn	Leu
1				5					10					15	

Glu	Leu	Met	Asp	Pro	Pro	Gly	Cys	Arg	Xaa	Phe	Gly	Thr	Xaa	Gly	Thr
			20					25					30		

Asn	Ala	Xaa	Phe	Ile	Xaa
					35

&lt;210&gt; 7323

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 6529

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7323

Asn	Tyr	Trp	Ile	Pro	Arg	Ala	Ala	Xaa	Asn	Ser	Val	Arg	Xaa	Glu	Lys
1				5					10					15	

Xaa	Asn	Pro	Met	Arg	Val	Thr	Ser	His	Pro	Thr	Asn	Ser	Val	Ser	Thr
			20					25					30		

Phe	Cys	Val	Gly	Glu	Xaa
			35		

&lt;210&gt; 7324

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (54)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (58)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7324

Pro	Leu	Glu	Pro	Ala	Gln	Ala	Lys	Trp	Thr	Leu	His	Trp	Ser	Asp	Thr
1				5					10					15	

Cys	Cys	Phe	Gln	Ala	Cys	Pro	Ser	Asn	Leu	Pro	His	Val	Leu	Cys	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 6530

[illegible]

<210> 7325

<211> 75

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$ 

<221> SITE

$\langle 222 \rangle$  (2)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$ 

&lt;221&gt; SITE

$\langle 222 \rangle$  (17)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$ 

&lt;221&gt; SITE

 $\langle 222 \rangle$  (20)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$ 

&lt;221&gt; SITE

 $\langle 222 \rangle$  (70)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

&lt;221&gt; SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$ 

&lt;221&gt; SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7325

Leu Xaa Arg Val Leu Leu Asn Lys Gly Asn Lys Arg Pro Ser Ser Thr  
1 5 10 15

## 6531

Xaa Gly Gly Xaa Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu Gln Glu  
20 25 30  
Ser Gly Thr Ser Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr  
35 40 45  
Ser Glu Ser Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp  
50 55 60  
Trp Glu Asn Pro Lys Xaa Xaa Xaa Phe Phe Val  
65 70 75

<210> 7326

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<220>

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<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

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<220>

## 6532

<221> SITE  
 <222> (48)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
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 <222> (53)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
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 <222> (56)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 7326  
 Tyr Xaa Xaa Val Asp Pro Pro Leu Asn His Xaa Pro Xaa Leu Ser Leu  
 1 5 10 15  
 Thr Lys Arg Lys Pro Ser Pro His Ser Leu Asn Leu Ile His His Ser  
 20 25 30  
 Arg Gln Xaa Arg Trp Ile Lys Pro Xaa Pro Ala Thr Gln Asn Leu Xaa  
 35 40 45  
 Ile Leu Leu Asn Xaa Pro His Xaa Met Asn Asn Ser Ser Ser Thr Val  
 50 55 60  
 Gln Thr  
 65

<210> 7327  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (40)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring L-amino acids



## 6533

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7327

Gly Lys Ile Pro Asp Tyr Val Ala Leu His Val Arg Asp Pro Lys Glu  
1 5 10 15

Thr Arg Leu Ser Thr Gly Arg Val Pro Glu Xaa Asn Leu Val Ser Arg  
20 25 30

Pro Gln Ile Asp Phe Asp Gly Xaa Asp Phe Xaa Xaa  
35 40

&lt;210&gt; 7328

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7328

Ala Ala Xaa Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg  
1 5 10 15

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Pro  
20 25 30

Xaa Val Xaa Xaa Phe Ser

6534

35

<210> 7329  
<211> 18  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (2)  
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<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7329  
Asp Xaa Thr His Ser Asp Arg Cys Cys Xaa Val Pro Xaa Asn His Xaa  
1 5 10 15

His Cys

<210> 7330  
<211> 97  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (64)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (92)

## 6535

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7330

Phe Gly Leu Ser His Leu Pro Pro Leu His Cys Arg Leu Cys Thr Lys  
1 5 10 15

Pro Arg Tyr Leu Leu Leu Ser Glu Pro Cys Cys Phe Tyr Ile Pro Cys  
20 25 30

Met Cys Thr Cys Cys Ile Tyr Cys Leu Leu Cys Lys Leu Leu Pro Ser  
35 40 45

Phe Pro Arg Ala Phe Arg Gly Leu Thr Leu Cys Phe Ser Leu Pro Xaa  
50 55 60

Thr Leu Val Thr Pro Phe Cys Val Ser Ile Thr Phe Thr Val Val Leu  
65 70 75 80

Cys Tyr Ser Tyr Leu His Val Cys Pro Ile Leu Xaa Glu Leu Ser Ala  
85 90 95

Thr

<210> 7331

<211> 40

<212> PRT

<213> Homo sapiens

<400> 7331

Thr Val Leu Met Glu Tyr Gly Leu Ile Tyr Ile Leu Leu Ser Trp Thr  
1 5 10 15

Asn Thr Ile Cys Phe Trp Leu His Ser Thr Asn Arg Thr Trp Gln Asp  
20 25 30

Lys Phe Met Val Arg Val Gly Trp  
35 40

<210> 7332

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

## 6536

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7332

Leu	His	Gln	Arg	Gly	Leu	Ser	Leu	Xaa	Gly	Thr	Ser	Gly	Ser	Pro	Gly
1				5				10						15	

Leu	Gln	Glu	Xaa	Arg	Thr	Ser	Glu	Ser	Xaa	Ile	Leu	Leu	Ile	Xaa	Xaa
			20					25					30		

Leu

<210> 7333

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

## 6537

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7333

Gly	Gly	Ser	Ala	Ser	Leu	Ser	Ser	Ser	His	Lys	Lys	Gly	Thr	Lys	Gly
1				5					10					15	

Pro	Ala	Pro	Pro	Thr	Val	Ala	Xaa	Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro
			20					25					30		

Gly	Cys	Arg	Asn	Pro	Ala	Arg	Val	Xaa	Pro	Xaa	Xaa	Xaa
		35					40					45

&lt;210&gt; 7334

&lt;211&gt; 35

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 6538

<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7334  
Ser Pro Ala Xaa Gln Met Xaa Ser Ser Xaa Pro Leu Tyr Phe Ser Gly  
1 5 10 15  
Val Xaa Leu Val Lys Arg Ile Cys Xaa Gly Glu Glu Leu Leu Ala Xaa  
20 25 30  
Leu His Leu  
35

<210> 7335  
<211> 17  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 6539

&lt;400&gt; 7335

Xaa Lys Ser Asp Gly His Leu Xaa Ala Xaa Asp Lys Asp Xaa Thr Xaa  
1 5 10 15

Pro

&lt;210&gt; 7336

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 6540

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7336

Lys Thr Xaa Trp Phe Cys Leu Val Ser Xaa Ile Glu Phe Val Cys Gly  
1 5 10 15

Phe Lys Phe Xaa Xaa Asn Phe Tyr Phe Tyr Leu Phe Pro Phe Ile Tyr  
20 25 30

Xaa Cys Leu Phe Cys Tyr Phe Cys Xaa Val Phe Leu Xaa Pro Leu Xaa  
35 40 45

&lt;210&gt; 7337

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7337

Val Trp Gly His Pro Xaa Lys Asn Lys Xaa Pro Gly Ala His Trp Val  
1 5 10 15

Asn Ser Leu Tyr Glu Lys  
20

&lt;210&gt; 7338

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids



## 6541

&lt;400&gt; 7338

Ala Arg Ala Glu Phe Gly Thr Arg Gly Ala Arg Tyr Pro Ile Arg Pro  
1 5 10 15  
Ile Val Ser Arg Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val  
20 25 30  
Thr Gly Asn Pro Lys Xaa  
35

&lt;210&gt; 7339

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7339

Leu Ser Lys His Thr Ile Tyr Met Thr Leu Ile Leu Ile Thr Arg Ser  
1 5 10 15  
Asn Gln Xaa Asp Asn Glu Ile Pro Ile Ile Lys Phe Gly Glu Lys Xaa  
20 25 30  
Ser Lys Ile Tyr Gln Asn Ile Cys Pro Pro Xaa Arg Cys Ile Ser Ser  
35 40 45

Leu

&lt;210&gt; 7340

&lt;211&gt; 18

&lt;212&gt; PRT

## 6542

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7340

Lys	Asn	Glu	Val	Thr	Asp	Xaa	Leu	Lys	Lys	Lys	Lys	Lys	Lys	Ile	Pro
1				5				10						15	

Xaa Leu

<210> 7341

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7341

Phe	Pro	Ile	Gly	Pro	Phe	Phe	Phe	Ser	Cys	Lys	Thr	Val	Leu	Leu	Leu
1				5				10					15		

Ile	Lys	Ile	Ile	Leu	Glu	Tyr	Cys	Gln	Cys	Val	Asp	Asn	Ile	His	Leu
		20						25					30		

Leu	Leu	Leu	Thr	Ala	Tyr	Ser	Ser	Val	Lys	Leu	Leu	Lys	Val	Leu	Asn
		35					40					45			

Ile	Met	Lys	His	Leu	Val	Lys	Asn	Trp	Xaa	Gly	Ser	Asn	Xaa	His	Gly
	50					55					60				

Arg	Asn	Pro	Arg	Thr	Leu	Gln	Ile	Pro	Pro	Leu	Ile	Leu	Asn	Ser	Lys
65					70					75					80

## 6543

Ile Ser Ile Ile Leu Asp Trp Ala  
85

<210> 7342

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7342

Asn Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Ser Xaa Ser  
1 5 10 15

Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn  
20 25 30

Pro Lys Xaa  
35

<210> 7343

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

## 6544

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7343

Trp	Leu	Lys	Thr	Pro	Leu	Gly	Leu	Xaa	Gln	Ile	Thr	Val	Phe	Asn	Met
1				5				10						15	

Thr	Xaa	Leu	Arg	Leu	Tyr	Asn	Leu	Asn	Pro	Ile	Ser	Leu	Leu	Leu	Ser
		20					25					30			

Gln	Leu	Ser	Glu	Thr	Leu	Asn	Xaa	Thr	Ile	Leu	Cys	Xaa	Ala	Lys	Asn
		35					40					45			

Ser	Phe	Leu	Phe	Xaa	Arg	Asn
	50				55	

<210> 7344

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7344

Ser	Xaa	Val	Ile	Cys	Ile	Leu	Ile	Asn	Xaa	Gln	His	Thr	Val	Arg	Ser
1				5				10					15		

## 6545

Thr Leu Xaa Tyr Tyr Ile Glu Val Leu Leu Phe Ala Tyr Leu Leu Ile  
20 25 30

Phe Ser Thr Gln Ser Gly Ser His Phe Val Phe Cys  
35 40

<210> 7345

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

## 6546

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7345

Arg	Thr	Gln	Val	Xaa	Ala	Gln	Gln	Glu	Ala	Thr	Asp	Leu	Trp	Asp	Pro
1				5						10				15	

Gly	Pro	Gly	Val	Phe	Ala	Gly	Leu	Thr	Pro	Ala	Ser	Leu	Xaa	Phe	Gln
			20					25					30		

Leu	Phe	Leu	Ser	Lys	Val	Glu	Xaa	Thr	Phe	Xaa	Cys	Ile	Cys	Cys	Xaa
		35					40					45			

Asp	Trp	Cys	Ser	Gly	Pro	Ser	Arg	Pro	Cys	Cys	Xaa	His	Asn	Xaa	Xaa
	50					55					60				

Gln	Xaa	Xaa	Pro	Gly	Xaa	Ile	Leu	Ser	Gly	Xaa	Val	Phe	Thr	Ala	Leu
65					70					75					80

Pro	Ala	Leu	Gln	Leu	Gly	Xaa	Thr	Met	Pro	Ala	Xaa
			85						90		

6547

&lt;210&gt; 7346

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (67)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7346

Thr	Leu	Lys	Met	Ile	Leu	Glu	Xaa	Val	Phe	Tyr	Val	Phe	Lys	Xaa	Arg
1				5				10						15	

Tyr	Ile	Ser	Phe	Leu	Tyr	Ala	Val	Asn	Xaa	Ser	His	Val	Tyr	Val	Ser
			20					25					30		

Tyr	Val	Ser	Leu	Cys	Gly	Asn	Ser	Leu	Asn	Tyr	Tyr	Ile	Ser	Ser	Leu
			35					40				45			

Xaa	Ile	Leu	Ser	Ser	Phe	Arg	Gly	Thr	Gly	His	Ile	Tyr	Met	Lys	Asn
						55					60				

Arg	Asn	Xaa	Thr	Thr	Asn	Lys	Arg	Glu	Ile	Thr	Arg
65					70					75	

&lt;210&gt; 7347

## 6548

<211> 80  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (56)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (60)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (68)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (70)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7347  
Leu Val Pro Asn Ser Ala Arg Gly Phe Thr Leu Leu Thr Lys Arg Leu



## 6549

1	5	10	15
Asn Arg Leu Phe Ile Asn Arg Pro His His Ser Xaa Xaa Leu Asn Leu	20	25	30
Trp Ala Xaa Asn His Ser Arg Leu Thr Leu Ser Thr Pro Gln Xaa Gly	35	40	45
Gly Pro Ser Gln Ile Ile Ser Xaa Phe Lys Ser Xaa Ala Leu Pro Phe	50	55	60
Pro Phe Asn Xaa Gln Xaa Pro Gly Gly Xaa Lys Arg Gly Pro Leu Ile	65	70	75
			80

&lt;210&gt; 7348

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7348

Val Gln Xaa His Phe Thr Xaa Gln Ser Tyr Gly Xaa Thr His Pro Leu	1	5	10	15
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Ile Ile Leu Val Xaa	20
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## 6550

&lt;210&gt; 7349

&lt;211&gt; 63

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7349

Gln	Ser	Glu	Val	Lys	Lys	Ser	Val	Cys	Val	Val	Val	Xaa	Ala	Trp	Ile
1				5					10					15	

Gly	Val	Pro	Ser	Cys	Leu	Gly	Xaa	Tyr	Thr	Tyr	Ala	Ser	Phe	Leu	Leu
			20					25					30		

Phe	Ile	Phe	Cys	Leu	His	Ser	Ser	Glu	Phe	Thr	Tyr	Phe	Leu	Lys	Ile
		35					40					45			

Ser	Lys	Leu	Leu	Phe	Arg	Xaa	Ile	Ser	Arg	His	Trp	Gly	Arg	Leu
	50					55					60			

&lt;210&gt; 7350

&lt;211&gt; 35

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6551

&lt;400&gt; 7350

Cys Xaa Thr Tyr Val Tyr Pro Leu Leu Lys Phe Pro Pro Ala Leu Ile  
1 5 10 15

Ser Met Phe Gln Cys Gln Xaa Ser Tyr Asn Ser Lys Cys Ser Pro Lys  
20 25 30

Gly Gly Ser  
35

&lt;210&gt; 7351

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

## 6552

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7351

Gly	Leu	Lys	Lys	Pro	Lys	Thr	Ser	His	Glu	Val	Asn	Tyr	Xaa	Lys	Gly
1				5					10					15	

Phe	Pro	Trp	Asp	Xaa	Lys	Ile	Arg	Val	Lys	Thr	Val	Gly	Gln	Gln	Tyr
			20					25					30		

Phe	Pro	Xaa	Xaa	Gln	Asn	Xaa	Ser	Tyr	Xaa	Lys	Lys	Leu	Xaa	Ile	Xaa
		35					40					45			

Tyr	Met	Asn	Gln	Thr	Xaa	Thr	Pro	Phe	Pro	Ile	Leu	Leu	Lys	Ile	Xaa
	50					55					60				

Ser	Ser	Ile	Lys	Asn
65				

<210> 7352

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 6553

<221> SITE  
 <222> (15)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (17)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (26)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 7352  
 Lys His Gln Leu Phe Cys Phe Phe Xaa Pro Tyr Lys Leu Xaa Xaa Xaa  
 1 5 10 15  
  
 Xaa Glu Xaa Trp Val Val Val Met Val Xaa Thr Ile Thr Gly Tyr Phe  
 20 25 30  
  
 Ala Ala Thr Val Arg Xaa Glu Lys Xaa Gln Arg Ile Leu Leu Ser Cys  
 35 40 45  
  
 Xaa Ile Trp Gly Ile Thr Lys Trp Lys Thr Ala Ile  
 50 55 60

## 6554

<210> 7353  
<211> 18  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7353  
Ala Xaa Pro Gly Gly Xaa Arg Asn Gln Phe Arg Pro Ile Xaa Ile Pro  
1 5 10 15

Ile Thr

<210> 7354  
<211> 34  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7354  
Ala Ala Xaa Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg  
1 5 10 15

## 6555

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Thr  
                   20                  25                  30

Lys Xaa

<210> 7355

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7355

Met Leu Pro Leu Xaa Ile Ile Thr Cys Leu Thr Leu Asn Lys Phe Tyr  
   1                  5                  10                  15

Arg Ile Phe Ser Arg Thr Phe Ala Asn Thr Gly Asp Ser Gln Lys Gln  
                   20                  25                  30

Cys Trp Glu Leu Phe Ser Asn Phe Pro Phe Glu Asn Leu Gln Lys Phe  
                   35                  40                  45

<210> 7356

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7356

Xaa Gln Leu Lys Glu His Thr Arg Leu Cys Ser Lys Ile Val Gly Arg  
   1                  5                  10                  15

Phe Ile Gly Arg Gly Asp Lys Pro Thr Glu Pro Gly Asp Ser Trp Leu  
                   20                  25                  30

Ser Lys Ile Asn Leu Ser Ser Leu

## 6556

35

40

&lt;210&gt; 7357

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7357

Val	Glu	Ala	Thr	Asn	Leu	Pro	Ser	Leu	Val	Ile	Ala	Gly	Cys	Pro	Lys
1				5				10						15	

Xaa	Asn	Leu	Xaa	Ser	Thr	Leu	Asn	Leu	Pro	Thr	Glu	Pro	Ser	Lys	Ser
		20						25					30		

Leu	Val	Asn	Leu	Thr	Val	Ser	Pro	Lys	Glu	Glu	Gln	Leu	Phe	Gly	Pro
		35						40					45		

Xaa	Lys	Lys	Pro	Cys
		50		

&lt;210&gt; 7358

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE



## 6557

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7358

Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Xaa Arg  
1 5 10 15

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Thr  
20 25 30

Gln Xaa

&lt;210&gt; 7359

&lt;211&gt; 74

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7359

Leu Leu Ile Pro Gly Ala Gly Leu Ser Leu Leu Pro Ile Ser Gln Pro  
1 5 10 15

Cys Glu Ser Val Leu Ala Ser Thr Asp Thr Ala Asp Pro Glu Leu Asn  
20 25 30

Val Pro Lys Trp Arg Ser Gln Ser Arg Leu Phe Xaa Asn Trp Ala Lys  
35 40 45

Thr Leu Lys Trp Gly Gln Ser Gly Leu Pro Gln Trp Ser Asn Thr Gly  
50 55 60

Phe Leu Leu Asn Val Ser Lys Thr Cys Pro  
65 70

&lt;210&gt; 7360

&lt;211&gt; 77

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

## 6558

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7360

Glu	Ile	Ile	Val	Val	Leu	Val	Trp	Trp	His	Lys	Phe	Phe	Ser	Leu	His
1				5					10					15	

Phe	Val	Tyr	Ala	Asp	Cys	Leu	Xaa	Xaa	Leu	His	Pro	Phe	Leu	Phe	Phe
			20					25					30		

Pro	Glu	Xaa	Xaa	Lys	Ser	Gln	Phe	Cys	Leu	Leu	Asp	Ala	Leu	Lys	Lys
			35				40						45		

6559

Ile Arg Arg Glu Arg Lys Asn Gln Thr Asp Cys Xaa Tyr Phe Xaa Glu  
50 55 60

Xaa Asp Asn Phe Gly Xaa Xaa Cys Gln Ala Pro Ser Trp  
65 70 75

<210> 7361  
<211> 33  
<212> PRT  
<213> Homo sapiens

<400> 7361  
Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg  
1 5 10 15

Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Pro  
20 25 30

Lys

<210> 7362  
<211> 69  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (44)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (53)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (63)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 6560

&lt;400&gt; 7362

Asn Asn Met Asn Cys Met Pro Thr Val Tyr Gln Thr Trp His Trp Ala  
 1 5 10 15

Pro Cys Cys Cys Arg Phe Ser Glu Pro Trp Pro Leu Tyr His Gly Pro  
 20 25 30

Asp His Val Phe Ser Gly Arg Leu Asn Lys Leu Xaa Ile Glu Gln Ile  
 35 40 45

Thr Thr Ser Ser Xaa Asp Ile Lys Xaa Lys Tyr Ser Phe Asp Xaa Ile  
 50 55 60

Glu Gln Trp Glu Val  
 65

&lt;210&gt; 7363

&lt;211&gt; 77

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

## 6561

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7363

Tyr	Arg	Xaa	Phe	Ala	Phe	Ile	Asn	Tyr	Ile	Trp	Pro	Leu	Leu	Thr	Tyr
1				5					10					15	

Leu	Lys	Leu	Cys	Xaa	Asn	Xaa	Phe	Phe	Phe	Xaa	Xaa	Val	Cys	Trp	Glu
			20						25				30		

Lys	Lys	Phe	Phe	Pro	Phe	Leu	Lys	Lys	Asn	Gln	Thr	Thr	Xaa	Xaa	Xaa
		35					40					45			

Xaa	Val	Ser	Trp	Glu	Ser	Pro	Xaa	Gly	Xaa	Lys	Xaa	Ile	Pro	Gly	Leu
	50					55					60				

Glu	Ser	Pro	Pro	Ile	Leu	Phe	Ser	Trp	Ala	Leu	Phe	Tyr
65					70					75		

<210> 7364

## 6562

<211> 100  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (59)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (60)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 6563

<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (63)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (64)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (76)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (79)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (82)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (87)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (89)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (98)

## 6564

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7364

Xaa Pro Phe Leu Leu Leu Thr Xaa Xaa Leu Lys Trp Gly Gly Gly Leu

1

5

10

15

Xaa Pro Lys Asn Xaa Thr Phe Phe Pro Arg Gly Glu Lys Thr Ser Arg

20

25

30

Gly Ala Leu Gly Gly Xaa Pro Pro Pro Leu Lys Asn Pro Leu Xaa Gln

35

40

45

Asn Pro Leu Leu Phe Pro Gln Asn Gly Ser Xaa Xaa Phe Xaa Xaa Xaa

50

55

60

Gly His Pro Pro Asn Leu Asn Asp Phe Xaa Phe Xaa Ile Xaa Xaa Arg

65

70

75

80

Gly Xaa Gln Ser Asn Trp Xaa Phe Xaa Lys Ala Lys Gly Asn Leu Pro

85

90

95

Pro Xaa Phe Gly

100

<210> 7365

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids



## 6565

<220>  
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<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (56)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 6566

<221> SITE  
<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (73)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (75)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (76)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (77)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (79)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (80)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (86)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 6567

&lt;222&gt; (98)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (109)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (113)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (116)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (119)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7365

Lys	Gly	Phe	Glu	Leu	Phe	Val	Glu	Xaa	Lys	Asn	Gln	Xaa	Xaa	Lys	Lys
1				5					10					15	

Xaa	Gly	Ser	Phe	Xaa	Lys	Lys	Lys	Leu	Leu	Gly	Ala	Trp	Xaa	Thr	Xaa
			20					25					30		

Pro	Xaa	Lys	Lys	Xaa	Xaa	Lys	Lys	Xaa	Leu	Glu	Phe	Xaa	Phe	Pro	Lys
		35					40					45			

Lys	Leu	Gly	Xaa	Ile	Phe	Phe	Xaa	Xaa	Lys	Asn	Ser	Pro	Xaa	Lys	Ile
	50					55					60				

Pro	Phe	Pro	Pro	Phe	Trp	Gly	Glu	Xaa	Xaa	Xaa	Xaa	Xaa	Lys	Xaa	Xaa
	65				70					75					80

Pro	Pro	Pro	Pro	Phe	Xaa	Ile	Trp	Lys	Asn	Phe	Gly	Pro	Pro	Phe	Phe
				85					90					95	

Glu	Xaa	Phe	Leu	Lys	Lys	Ile	Phe	Phe	Gly	Glu	Lys	Xaa	Pro	Pro	Lys
			100					105					110		

Xaa	Pro	Pro	Xaa	Asn	Phe	Xaa	Lys	Asn	Ser
			115				120		

&lt;210&gt; 7366

## 6568

<211> 50  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7366  
Leu Ser Thr Phe Ser Leu Leu Phe Glu Val Leu Phe Gln Pro Ser Phe  
1 5 10 15  
Leu Lys Leu Phe Xaa Ser Thr Leu Ser Phe Ser Xaa Phe Ile Thr Tyr  
20 25 30  
Pro Phe Ser Leu Glu Leu Glu Leu His Tyr Leu Phe Tyr Tyr Phe Thr  
35 40 45  
Arg Leu  
50

<210> 7367  
<211> 35  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7367  
Ala Ala Arg Xaa Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg

## 6569

1                      5                      10                      15  
Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Asn Pro  
                         20                      25                      30  
Lys Xaa Xaa  
                         35

<210> 7368

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 6570

&lt;221&gt; SITE

&lt;222&gt; (71)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (74)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7368

Ser His Ser Gly Ser Ser Ser His Xaa Leu Asp Leu Cys Val Tyr Glu  
1 5 10 15

Tyr Ile Lys Ile Arg Ala Leu Xaa Arg Xaa Val Leu Val Xaa Asn Gly  
20 25 30

Tyr Ser Ser Val Val Gln Arg Tyr Thr Lys Cys Xaa Phe Leu Tyr Lys  
35 40 45

Val Lys Ile Leu Gly Gly Tyr Lys Lys Ile Thr Leu Asn Xaa Leu Thr  
50 55 60

Leu Xaa Gly Phe Asp Ile Xaa Phe Ser Xaa Trp Asn Pro  
65 70 75

&lt;210&gt; 7369

&lt;211&gt; 78

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6571

<220>  
<221> SITE  
<222> (48)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (75)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7369  
Ser Gly Thr Val Ser Val Cys Thr Xaa Xaa Thr Lys Glu Thr Cys Leu  
1 5 10 15  
Arg Thr Phe Gly Phe Gly Trp Lys Leu Phe Ile Phe Cys Leu Ile Glu  
20 25 30  
Pro Asn Leu Leu Ser Gly Thr Ala His Xaa Val Asn Lys Xaa Val Xaa  
35 40 45  
Lys Asp Gly Thr Gly His Gly Lys Leu Lys Lys Ser Phe Leu Ser Leu  
50 55 60  
Thr Phe Val Arg Leu Asn His Leu Thr Tyr Xaa Ser Glu Ser  
65 70 75

<210> 7370  
<211> 67  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 6572

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (57)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7370

Met	Xaa	Ala	Cys	Gly	Phe	Xaa	Xaa	Asn	Trp	Gln	Gln	Cys	Gln	Ile	Pro
1				5				10						15	

Arg	Ser	Trp	Ala	Leu	Phe	Lys	Ser	Xaa	Leu	Asn	Arg	Gly	Leu	Thr	Glu
			20					25					30		

Ser	Lys	Xaa	Ser	Xaa	Leu	Arg	Cys	Thr	Lys	His	Thr	Xaa	Thr	Thr	Xaa
		35					40					45			

Trp	Phe	Ser	Phe	Asp	Ala	Gln	His	Xaa	His	Glu	Xaa	Thr	Trp	Lys	Cys
	50					55					60				

Pro	Phe	Lys
		65



## 6573

<210> 7371  
<211> 65  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
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<220>  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (61)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7371  
Ser Phe Tyr Ile Arg Ile Arg Lys Cys Lys Leu Val Ser Xaa Ser Leu  
1 5 10 15

Cys Xaa Leu Leu Asn Pro Thr Val Xaa Met Thr Asp Lys Phe Ser Pro  
20 25 30

## 6574

Ser Pro Ala Xaa Cys Xaa Gln Val Arg Xaa Xaa Pro Lys Ser Pro Pro  
                   35                  40                  45

Phe Trp Asn Phe Lys Leu Gly Gly Ser Gln Asn Thr Xaa Gly Ser Tyr  
           50                  55                  60

Phe  
   65

<210> 7372

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7372

Gly His Val Phe Ser Phe Glu Leu Phe Ser Phe Ser Val Gly Gly Lys  
   1                  5                  10                  15

Ile Ser His Glu Lys Gln Lys Val Thr Leu Pro Ser Leu Met Pro Gly  
           20                  25                  30

Ser Xaa Asp Glu Lys Glu Ile Leu Gly Lys Asp Gln Phe Pro Leu Phe  
           35                  40                  45

## 6575

Gln Leu Ser Ile Thr Glu Phe Val Phe Gly Lys Trp Ala Phe Leu Lys  
50 55 60

Ser Cys Ser Val Phe Gln Gln Gly Gln Glu Val Xaa Cys Leu Leu Cys  
65 70 75 80

Tyr Leu Lys Xaa Ser Val Arg Gly Val Pro Xaa Gly Ser Arg Lys Xaa  
85 90 95

Ser Ser Phe Cys  
100

<210> 7373

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

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<220>

<221> SITE

<222> (17)

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<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 6576

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<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (44)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (64)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (67)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 6577

&lt;222&gt; (82)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (91)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7373

Gly	Thr	Ser	Val	Val	Val	Tyr	Xaa	Arg	Cys	Xaa	Leu	Met	Leu	Asn	Ser
1				5				10					15		

Xaa	Tyr	Ser	Xaa	Arg	Glu	Xaa	His	Lys	Phe	Xaa	Val	Lys	Xaa	Pro	Ser
			20					25					30		

Tyr	Cys	Gly	Phe	Phe	Leu	Leu	Leu	Xaa	Asn	Met	Xaa	Glu	Ile	Lys	Ile
		35					40					45			

Thr	His	Val	Leu	Gly	Pro	Leu	Lys	Pro	Tyr	Ile	Ala	Thr	Val	His	Xaa
	50					55					60				

Ser	Asn	Xaa	Xaa	Arg	Gly	Asp	Xaa	Gly	Xaa	Tyr	Val	Xaa	Thr	Tyr	Xaa
65					70					75					80

Ser	Xaa	Phe	Lys	Phe	Tyr	Leu	Leu	Arg	Lys	Xaa	Phe	Pro	Gln	Ser	Ala
				85					90					95	

&lt;210&gt; 7374

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6578

<220>  
 <221> SITE  
 <222> (31)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (57)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7374  
 Ile Glu Phe Tyr Xaa Tyr Phe Gly Glu Lys Ile Ile Phe Cys Xaa Pro  
 1 5 10 15  
 Lys Xaa Ile Phe Ser Tyr Ser Phe Arg Lys Phe Glu Ile Leu Xaa Xaa  
 20 25 30  
 Phe Arg Ala Phe Asn Trp Asn Leu Xaa Pro Lys Leu Lys Pro Phe Thr  
 35 40 45  
 Leu Lys Pro Pro Ile Phe Phe Phe Xaa Pro Leu  
 50 55

<210> 7375  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

## 6579

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<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7375  
Ala Xaa Arg Xaa Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Xaa Xaa  
1 5 10 15  
Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Thr  
20 25 30  
Lys Thr Xaa Gly Ile Xaa  
35

<210> 7376  
<211> 53  
<212> PRT  
<213> Homo sapiens

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

## 6580

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<220>  
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<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (44)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7376  
Xaa Lys Glu Ile Thr Xaa Thr Xaa Arg Asn Ser Pro Leu Pro Tyr Pro  
1 5 10 15  
Ser Xaa Gly Ser Ser Ile Ser Gly Ser Ile Thr Asn Ser Trp Phe Xaa  
20 25 30  
Leu Thr Asn Pro His His Phe Leu Ser Phe Pro Xaa Xaa Leu Pro Pro  
35 40 45  
Xaa Thr Pro Ser Ile  
50

<210> 7377  
<211> 34  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids



## 6581

<220>  
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 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (13)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (23)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7377  
 Leu Leu Tyr Phe Pro Val Xaa Ser Ala Gly Xaa Xaa Xaa Leu Leu Ser  
           1                  5                  10                  15  
 Asp Arg Asn Leu Tyr Lys Xaa Phe Phe Asp Pro Val Gly Arg Arg Tyr  
                   20                  25                  30

Pro Phe

<210> 7378  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<220>  
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<220>  
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6582

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7378  
Gly Leu Leu Xaa Tyr Xaa Asn Glu Thr Leu Val Xaa Thr Lys Tyr Asp  
1 5 10 15  
Phe Xaa Lys Val Leu Phe Tyr Lys Thr Xaa  
20 25

<210> 7379  
<211> 112  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (18)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 6583

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<220>  
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<220>  
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<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 6584

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (74)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (81)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (83)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (91)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (95)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7379

Lys	Asn	Phe	Phe	Phe	Phe	Phe	Xaa	Lys	Ser	Pro	Phe	Xaa	Phe	Phe	Xaa
1				5					10					15	

Ile	Xaa	Xaa	Phe	Leu	Lys	Ile	Gly	Pro	Xaa	Xaa	Phe	Xaa	Phe	Lys	Xaa
			20					25					30		

Phe	Leu	Lys	Lys	Lys	Asn	Phe	Asn	Cys	Phe	Xaa	Xaa	Lys	Ile	Xaa	Pro
		35					40					45			

Pro	Phe	Lys	Xaa	Phe	Ser	Pro	Xaa	Arg	Phe	Phe	Pro	Xaa	Xaa	Phe	Xaa
	50					55					60				

Lys	Lys	Ile	Phe	Phe	Phe	Lys	Lys	Phe	Xaa	Phe	Phe	Gly	Gly	Phe	Phe
65					70					75				80	

Xaa	Phe	Xaa	Pro	Ser	Leu	Ser	Pro	Asn	Phe	Xaa	Phe	Asn	Pro	Xaa	Phe
				85					90					95	

## 6585

Phe Pro Pro Lys Ile Ser Pro Ser Pro Phe Pro Gln Lys Phe Pro Pro  
100 105 110

<210> 7380  
<211> 83  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (63)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 6586

&lt;222&gt; (74)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (76)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (77)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (79)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7380

Pro	Trp	Asp	Arg	Asp	Val	Gln	Leu	Ser	Lys	Ala	Leu	Ser	Tyr	Ala	Leu
1				5					10					15	

Arg	His	Gly	Ala	Leu	Asn	Trp	Gly	Phe	Pro	Trp	Xaa	Leu	Val	Pro	Xaa
			20					25					30		

Leu	Glu	Leu	Met	Pro	Leu	Xaa	Thr	Pro	Xaa	Ala	Leu	Pro	Pro	Xaa	Leu
			35				40					45			

Xaa	His	Gly	Thr	Phe	Trp	Asn	Thr	Gly	His	Pro	Ser	Tyr	Ser	Xaa	Ala
						55					60				

Cys	Pro	Ala	Arg	Glu	Gly	Pro	Thr	Phe	Xaa	Leu	Xaa	Xaa	Glu	Xaa	Pro
65						70					75				80

Gly Lys Pro

&lt;210&gt; 7381

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 6587

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7381

Arg	His	Glu	Val	Thr	Ser	Leu	Glu	Phe	Phe	Phe	Phe	Phe	Leu	Xaa	Leu
1					5				10					15	

Asn	Xaa	Phe	Xaa
			20

&lt;210&gt; 7382

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (66)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7382

Val	Gln	Met	Asp	Ser	Ile	Tyr	Val	Val	Leu	Asn	Asn	Asn	Leu	Gly	Cys
1					5					10				15	

## 6588

Leu Gln Thr Leu Gln Phe Ile Ile Phe Pro Tyr Lys Gln Asp Gly Leu  
                   20                  25                  30  
 Gly Phe Ser Ser Ser Thr Xaa Ser Ile Xaa Pro Thr Xaa Phe Xaa Tyr  
           35                  40                  45  
 Ser Trp Ser Lys Lys Ile Thr Cys Phe Phe Phe Phe Lys Trp Ala Arg  
       50                  55                  60  
 Asn Xaa Phe Phe Phe  
   65

<210> 7383

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7383

Ile Arg Gly Ser Leu Ala Leu Glu Tyr Xaa Xaa Leu Xaa Lys Glu Met



## 6589

1	5	10	15												
Arg	Leu	Gly	Thr	Leu	Met	Ser	Gln	Asn	Leu	Phe	Ala	Gln	Xaa	Leu	Gly
		20						25					30		
Arg	Thr	Ala	Leu	Leu	Thr	Leu	Gly	Cys	Thr	Thr	Trp	Leu	Lys	Phe	Ser
		35					40					45			
Pro	Pro	Thr	Ser	Leu	Glu	Cys	Pro	Pro	Xaa	Ser	Pro	Xaa			
	50					55					60				

&lt;210&gt; 7384

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7384

Val	Pro	Phe	Pro	Xaa	Gly	Glu	Ile	Pro	Pro	Leu	Leu	Lys	Phe	Arg	Asn
1				5					10					15	

Lys	Lys	Lys	Xaa	Xaa	Arg	Ser	Lys
			20				

&lt;210&gt; 7385

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6590

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7385  
Leu Leu Xaa Val Leu Val Asn Gln Xaa Thr Xaa Leu Leu Asn Gln Xaa  
1 5 10 15  
Phe Lys Asn Leu Asn Gly Lys Phe Leu Asp Leu Asn Leu Gly Ser Lys  
20 25 30  
Phe Gly Xaa Pro Phe Pro Xaa Gln Val Ser  
35 40

<210> 7386  
<211> 46  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7386  
Glu Pro His Pro Trp Asn Ala Thr Pro Leu Leu Thr Phe Ser Asn Glu  
1 5 10 15

## 6591

Leu Arg Xaa Leu Lys Gly Arg Asp Tyr Glu Leu Leu Ile Phe Val Ser  
                   20                  25                  30

Pro Ser Arg Ala Gln Leu Cys Cys Gly Trp Asp Pro Ser Gln  
                   35                  40                  45

<210> 7387

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7387

Val Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Ser Glu Ser  
       1                  5                  10                  15

Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Xaa Xaa Asp Trp Glu Asn  
                   20                  25                  30

Xaa Xaa

<210> 7388

<211> 38

<212> PRT

<213> Homo sapiens

## 6592

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (24)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7388  
Arg Xaa Xaa Gly Gly Arg Ser Ile Leu Met Asp Arg Pro Gly Trp  
1 5 10 15  
Met Asn Ala Ala Arg Ala Thr Xaa Leu Pro Xaa Ala Leu Val Gln Thr  
20 25 30  
Ile Tyr Pro Asn Lys Val  
35

<210> 7389  
<211> 52  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 6593

<220>  
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 <222> (13)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (22)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (38)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (48)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7389  
 Xaa Phe Gln Ala Ser His Asn Phe Xaa Ile Asn Xaa Xaa Asp Arg Thr  
 1 5 10 15  
 Gln Glu Lys Thr Asn Xaa Leu His Gly Gly Ser Asn Phe Pro Phe Ser  
 20 25 30  
 Arg Pro Xaa Leu Lys Xaa Asn Pro Leu Pro Pro Arg Phe Pro Phe Xaa  
 35 40 45  
 Leu Pro Lys Phe  
 50

<210> 7390  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (20)  
 <223> Xaa equals any of the naturally occurring L-amino acids

## 6594

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (24)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7390  
Gly Asn Gly Asp Gly His Pro Cys Arg Cys His Asp Ala Arg Gly Asp  
1 5 10 15  
Lys Gly His Xaa Xaa Xaa Pro Xaa Trp  
20 25

<210> 7391  
<211> 32  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7391  
Ser Glu Ala Ser Ala Gly Xaa Asn Xaa Leu Asn Phe Ser Gly Phe Pro  
1 5 10 15  
Gly Cys Arg Asn Ser Ala Arg Gly Pro Pro Gly Pro Pro Xaa Phe Phe  
20 25 30

6595

<210> 7392  
<211> 176  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (18)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (58)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (83)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (95)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (105)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 6596

<221> SITE  
 <222> (117)  
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<220>  
 <221> SITE  
 <222> (127)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (128)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (130)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (158)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (169)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7392  
 Arg Ser Gln Pro His His Xaa Xaa Gly Arg Ser Thr Leu Asn Gly Ser  
 1 5 10 15  
 Pro Xaa Leu His Glu Phe Xaa Thr Ser Leu Cys Ile Ala Ser Gln Gly  
 20 25 30  
 Ser Pro Arg Lys Met Ala Glu Leu His Gly Gln Gly Val Leu Thr Pro  
 35 40 45  
 Pro Gln Met Gly Arg Val His Ser Pro Xaa Asp Leu His Ala Gly Arg  
 50 55 60  
 Pro Pro Ala Ala Asp Leu Pro Pro Arg Pro Met Leu His Met Val Gly  
 65 70 75 80  
 Gln Ser Xaa Trp Leu Val Glu Cys Phe Arg Gly Cys Val Tyr Xaa Arg



## 6597

					85						90					95			
Gly	Val	Met	Cys	Glu	His	His	Ser	Xaa	Lys	Arg	Gly	Leu	Leu	Lys	Gly				
			100					105						110					
Lys	Trp	Gly	Leu	Xaa	Val	Asn	Leu	Ala	Asp	Gly	Gly	Arg	Thr	Xaa	Xaa				
		115					120						125						
Arg	Xaa	Leu	Gly	Leu	Ser	Pro	Arg	Thr	Tyr	Ile	Leu	Leu	Pro	Ser	Leu				
	130					135						140							
Val	Ile	Ser	Pro	Ser	Leu	Pro	Pro	Arg	Gly	Ser	Cys	Xaa	Xaa	Ile	Trp				
145					150					155					160				
Pro	Cys	Ser	Trp	Ala	Ser	Thr	Met	Xaa	Val	Tyr	Ile	Gly	Leu	Gly	Lys				
				165					170					175					

&lt;210&gt; 7393

&lt;211&gt; 91

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (79)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (81)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7393

Arg	Ser	Ser	Gly	Leu	Leu	Pro	Gly	Lys	Ile	Ser	Gln	Arg	Glu	Cys	Ala
1				5				10					15		

Ser	Ala	Thr	Ser	Pro	Arg	Pro	Pro	Pro	Thr	Pro	Gly	Ser	Val	Val	Leu
		20					25						30		

Ser	Leu	Pro	Gly	Pro	Ala	Ala	Arg	Pro	Pro	Arg	Ala	Pro	Ala	Val	Pro
		35					40					45			

## 6598

Leu Ser Leu Ser Pro Asn Leu Ala Leu Pro Gln Thr Cys Pro Val Pro  
50 55 60

Val Gly Ser Ser Pro Xaa Gly Asn Trp Leu Trp Asp Arg Met Xaa Phe  
65 70 75 80

Xaa Ala Ala Ala Asn Leu Gly Pro Gly Leu Ser  
85 90

<210> 7394

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6599

&lt;400&gt; 7394

Ala Leu Ser Arg His Arg His Val Pro Ala Ser Leu Glu Xaa Glu Pro  
1 5 10 15  
Arg His Ser Leu Xaa Asp Xaa Asn Phe Gly Xaa Phe Pro Ser Arg Pro  
20 25 30  
Ser Leu Arg Leu Leu Pro His Glu Ala Ile Ser Gly Asp Gly Arg Leu  
35 40 45  
Gly Gln Arg Gln Val Asn Arg Val Pro Gln Ala Pro Phe Pro His Thr  
50 55 60  
Lys Xaa Ala Asp Cys Glu Leu Thr Gly Leu Arg Pro Asn Arg Ser Leu  
65 70 75 80  
Ser Ser Ser Cys Leu Leu Xaa Thr Ser Gly Pro Ile Leu Ile Pro Xaa  
85 90 95  
Trp Pro Asn Leu Ala Phe Leu Gly Phe Ala Arg Cys Leu Val Cys  
100 105 110

&lt;210&gt; 7395

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 6600

<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (18)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7395  
Cys Ala Cys Cys Xaa Val Asn Xaa Xaa Gly Xaa Ile Trp Xaa Lys Tyr  
1 5 10 15  
Pro Xaa Ile Leu Xaa Xaa Ser Ile Lys His Ala Cys Asp Ser Tyr Xaa  
20 25 30

## 6601

Leu Lys Val Ile Leu Ser Ser Xaa Xaa Ile Ser Gly Xaa Tyr Xaa Leu  
35 40 45

Ser Leu Ile Cys Leu Asn Ile  
50 55

<210> 7396  
<211> 19  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7396  
Leu Leu Ile Xaa Asp Ser Leu Pro Phe Val Leu Asn Lys Ser Xaa Ile  
1 5 10 15

Asn Glu Cys

<210> 7397  
<211> 46  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 6602

<220>  
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 <222> (32)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7397  
 Leu Thr Asn Gln Gly Phe Xaa Arg Lys Ile Leu Xaa Ser Lys Cys Xaa  
           1                  5                  10                  15  
 Ser Ser Pro Gly Leu Tyr Ile His His Leu Leu Asp Ile His Ser Xaa  
                   20                  25                  30  
 Val Lys Asn Thr Gly Ile Ile Ile Leu Ile Ser Thr Xaa Xaa  
                   35                  40                  45

<210> 7398  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7398  
 Ala Ala Arg Xaa Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg  
           1                  5                  10                  15  
 Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Asn Pro  
                   20                  25                  30  
 Lys Xaa

## 6603

<210> 7399  
<211> 41  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (20)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7399  
Asn Ile Leu Phe Gly Glu Xaa Gly Ile Tyr Pro Pro Trp Leu Asn Xaa  
1 5 10 15  
Xaa Phe Leu Xaa Arg Phe Ser Trp Lys Xaa Leu Gly Gly Gly Asn Phe  
20 25 30  
Trp Gly Ser Arg Trp Arg Glu Pro Gly  
35 40

<210> 7400  
<211> 35  
<212> PRT  
<213> Homo sapiens

## 6604

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7400  
Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg  
1 5 10 15  
Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Thr  
20 25 30  
Gln Xaa Xaa  
35

<210> 7401  
<211> 22  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (20)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7401  
Asp Trp Phe Gly Cys Phe Lys Ile Asp Ile Val Val Gln Cys Val Leu  
1 5 10 15  
His Gly Gly Xaa Arg Xaa  
20

<210> 7402  
<211> 71  
<212> PRT  
<213> Homo sapiens



6605

<220>  
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<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (69)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7402  
Xaa Ala Trp Ala Lys Cys Val Ile Tyr Arg Ser Gly Ala Arg Ala Glu  
1 5 10 15  
Ser Gly Pro Arg Thr Asp Pro Leu Ser Glu Leu Gly Leu His Gln Gly  
20 25 30  
Phe Gly Ser Gly Leu Asn Val Xaa Leu Ala Ser Ser Cys Arg Ser Thr  
35 40 45  
Gly Arg Leu Leu Ser Gln Gln Leu Arg Thr Pro Arg Thr Ser Glu Ala  
50 55 60  
Cys Ala Ile Ile Xaa Glu Leu  
65 70

<210> 7403  
<211> 42  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (7)

## 6606

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7403

Xaa	Xaa	Leu	Pro	Trp	Glu	Xaa	Ser	Gly	Thr	Thr	Gly	Cys	Glu	Leu	Xaa
1				5					10					15	

Arg	Gly	Gly	Gly	Arg	Ser	Arg	Thr	Ser	Gly	Ser	Pro	Gly	Leu	Gln	Glu
			20					25					30		

Phe	Gly	Thr	Arg	Pro	Xaa	Met	Xaa	Gly	Gln
		35					40		

<210> 7404

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

## 6607

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7404

Trp	Xaa	Tyr	Gly	Asp	Leu	Pro	Ala	Xaa	Asn	Phe	Ser	Lys	Phe	Gly	Xaa
1				5				10						15	

Xaa	Gly	Leu	Glu	Xaa	His	Xaa	Arg	Cys	Ala	Ala	Ala	Leu	Xaa	Thr	Ser
			20					25					30		

&lt;210&gt; 7405

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 6608

<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7405  
Xaa Gly Phe Leu Xaa Xaa Met Xaa Lys Ile Arg Glu Xaa Xaa Leu Glu  
1 5 10 15  
Xaa His Arg Arg Cys Ala Xaa Ala Leu Glu Leu Val Asp Pro Pro Gly  
20 25 30

<210> 7406  
<211> 33  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 6609

<220>  
<221> SITE  
<222> (24)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<400> 7406  
Glu Gln Gly Xaa Xaa Ser Ser Thr Ala Val Ser Gly Arg Ser Arg Thr  
1 5 10 15  
Ser Gly Ser Pro Gly Leu Gln Xaa Gln Thr His Ser Thr Leu Leu Pro  
20 25 30

Asp

<210> 7407  
<211> 52  
<212> PRT  
<213> Homo sapiens  
  
<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>  
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<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 6610

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (52)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7407

Xaa	Xaa	Xaa	Trp	Asn	Ser	Thr	Xaa	Val	Ser	Gly	Arg	Ser	Arg	Thr	Ser
1				5				10						15	

Gly	Ser	Pro	Gly	Leu	Gln	Glu	Phe	Glu	His	Glu	Glu	Ala	Phe	Ser	Cys
			20					25					30		

Phe	Lys	Met	Xaa	Leu	Xaa	Ile	Ser	Phe	Pro	Ala	Thr	Gly	Cys	Gln	Xaa
		35					40					45			

Leu	Ile	Glu	Xaa
			50

&lt;210&gt; 7408

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7408

Ser	Xaa	Leu	Ile	Xaa	Leu	Arg	Ala	Xaa	Ser	Lys	Arg	Leu	Leu	Ile	Ala
1				5				10						15	

Ile	Asn	Ser	Asn	Leu	Lys	Ile	Met	Ala	Thr	Tyr	Tyr	Phe	Glu	Lys	Phe
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 6611

20

25

30

Val Glu Trp Cys Val Leu  
35

&lt;210&gt; 7409

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7409

Ala Trp Phe Leu Ala Leu Thr Ala Lys Xaa Gly Lys Ile Gly Trp Ser  
1 5 10 15

Ser Thr Xaa Val Ala Ser Arg Ser Ser Thr Ser Gly Ser Pro Gly Leu  
20 25 30

Xaa Xaa Phe Gly Thr  
35

&lt;210&gt; 7410

&lt;211&gt; 112

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

## 6612

<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (56)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (58)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (59)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (61)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (64)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (67)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (73)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (89)



## 6613

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7410

Leu	Trp	Met	Pro	Leu	Ile	Lys	Gly	Glu	Ser	Ala	Xaa	Glu	Leu	Pro	Ala
1				5				10					15		

Pro	Pro	Gly	Val	Thr	Ala	Val	Gly	Leu	Gly	Leu	Cys	Cys	Lys	Pro	Tyr
			20					25					30		

Ile	Leu	Pro	Cys	Ser	Gly	Lys	Cys	Leu	Ala	Leu	Ser	Leu	Leu	Thr	Ser
		35					40					45			

Gly	Xaa	Pro	Val	Ile	Xaa	Thr	Xaa	Arg	Xaa	Xaa	Arg	Xaa	Val	Gly	Xaa
	50					55					60				

Met	Pro	Xaa	Phe	Leu	Ala	Asp	Ser	Xaa	Leu	Ile	Ser	Val	Val	Leu	Lys
65					70					75					80

Lys	Asn	Leu	Met	Phe	Leu	Val	Val	Xaa	Phe	Trp	Gly	Gly	Xaa	Gly	Gly
				85					90					95	

Gln	Lys	His	Gly	Gly	Ser	Ser	Glu	Leu	Xaa	Arg	Asn	Val	Ser	Xaa	Ile
			100					105					110		

<210> 7411

<211> 24

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

## 6614

<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7411  
Ala Arg Ala Glu Phe Xaa Thr Asn Xaa Thr Phe Thr Gly Xaa His Ile  
1 5 10 15  
Ile Ser Ile Gln Gly Xaa Ile Glu  
20

<210> 7412  
<211> 23  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 6615

&lt;400&gt; 7412

Ile Leu Lys Ile Arg Xaa Thr Xaa Pro Ala Xaa Pro Pro Arg Cys Xaa  
1 5 10 15

Ala Ala Leu Gly Ile Ser Gly  
20

&lt;210&gt; 7413

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7413

Pro His Ser Ala Gln Cys Gly Val Glu Ala Thr Xaa Xaa Xaa Ser Pro  
1 5 10 15

Xaa Pro Arg Asn Thr Xaa Asn Thr Leu Val Leu Ala Lys Ser Ser  
20 25 30

&lt;210&gt; 7414

&lt;211&gt; 45

## 6616

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7414

Tyr	Ser	Ala	Leu	Pro	Ala	Xaa	Xaa	Arg	Glu	Ser	Trp	Xaa	Xaa	Cys	Arg
1				5				10						15	

Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Ala	His	Ala	Ser
			20				25						30		

Val	Ile	Val	Arg	Trp	Ala	Asn	Leu	Leu	Val	Leu	Xaa	Ile
		35				40					45	

&lt;210&gt; 7415

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 6617

<221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7415  
 Pro Xaa Asn Asn Gly Phe Xaa His Met Ile Lys Lys Lys Lys Pro Phe  
           1                  5                  10                  15

Thr Asn Xaa

<210> 7416  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (31)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (50)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (52)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (55)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7416  
 Arg Leu Cys Glu Leu Tyr Arg Gln Asp Leu Arg Ile Ala Ser Pro Pro  
           1                  5                  10                  15

Asn Glu Val Leu Thr Leu Ala Trp Val Leu Lys Arg Pro Asp Xaa Phe  
                   20                  25                  30

Leu Leu Leu Pro Glu Ser Met Gly Leu Gly Leu Pro His Val Trp Gly

## 6618

35

40

45

Ala Xaa Ala Xaa Trp Glu Xaa Lys Lys  
 50 55

&lt;210&gt; 7417

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7417

Leu Arg Xaa Pro Ile Arg Lys Ala Gly Thr Pro Ala Arg Thr Gly Pro  
 1 5 10 15

Val Ile Xaa Gly Ser Xaa Gln Ala Ser Ala His Xaa Gly Arg Lys Glu  
 20 25 30

Asn Pro Xaa Ile Xaa Glu Glu Thr Glu Ser  
 35 40

6619

<210> 7418  
<211> 47  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (18)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (20)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (25)

## 6620

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7418

Pro	Arg	Val	Arg	Ile	Tyr	Val	Xaa	Leu	Xaa	Val	Xaa	Xaa	Xaa	Thr	Leu
1				5					10					15	

Xaa	Xaa	Pro	Xaa	Asn	Val	Leu	Asp	Xaa	Asn	Thr	Gln	Ser	Xaa	Asp	Ser
			20					25					30		

His	Ser	Xaa	Lys	Ser	Leu	Val	Xaa	Pro	Tyr	Asn	Trp	Val	Phe	Trp
		35					40					45		

<210> 7419

<211> 44

<212> PRT

<213> Homo sapiens

<400> 7419

Ala	His	Phe	Cys	Ser	Lys	Thr	Asn	Ser	Ile	Lys	Pro	Leu	Glu	Cys	Ser
1				5					10					15	

Gly	Phe	Gln	His	Thr	Val	His	Arg	Gln	Pro	Phe	Tyr	Gln	Lys	Leu	Ser
			20					25					30		

Val	Phe	Pro	Met	Thr	Gly	Phe	Ser	Gly	Lys	Val	Asn
			35				40				

<210> 7420

<211> 89

<212> PRT

<213> Homo sapiens



## 6621

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (67)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (73)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (74)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (84)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 7420  
 Ser Arg Asn Ser Arg Asn Asp Ser Thr Ser Val Phe Phe Phe Lys Lys  
     1                    5                    10                    15  
 Asn Leu Ile Ser Leu Phe Tyr Phe Arg Ile Ala Leu Leu Ile Thr Phe  
                     20                    25                    30  
 Leu Pro Trp Lys Leu Thr His Ser Leu Xaa Xaa Leu Arg Met His Pro  
             35                    40                    45  
 Met Lys Tyr Phe Arg Ile Glu Lys Lys Glu Met Asn Tyr Leu Asn Ser  
     50                    55                    60  
 Pro Glu Xaa Leu Cys Leu Leu Val Xaa Xaa Xaa Arg Leu Asn Ala Ile  
     65                    70                    75                    80

## 6622

Leu Pro Leu Xaa Thr Asp Ala Leu Leu  
85

<210> 7421

<211> 26

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7421

Pro	Arg	Val	Arg	Val	His	Leu	Pro	Phe	Phe	Phe	Phe	Phe	Lys	Phe	Ser
1				5				10					15		

Pro	Ile	Gln	Xaa	Asn	Asn	Xaa	Xaa	Xaa	Xaa
			20				25		

<210> 7422

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

## 6623

<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (48)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (55)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (61)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (71)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (75)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (78)

## 6624

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7422

Pro Phe Tyr Lys Lys Gly Glu Lys Ser Xaa Gly Val Xaa Arg Gly Pro

1

5

10

15

Pro Pro Gly Val Asn Xaa Arg Ser Arg Gly Lys Phe Pro Pro Gly Gly

20

25

30

Ser Gly Asn Pro Thr Ala Gly Ser Arg Xaa Asn Ser Ile Leu Xaa Xaa

35

40

45

Lys Thr Pro Asn Pro Asn Xaa Asn Pro Leu Lys Pro Xaa Gly Gly Ala

50

55

60

Leu Leu Gln Ala Pro Pro Xaa Asn Trp Asn Xaa Pro Gly Xaa Glu Pro

65

70

75

80

Asn

<210> 7423

<211> 117

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7423

Val Arg Lys Gln Leu Asn Leu Cys Val Leu Leu Glu Leu Gln His Pro

1

5

10

15

## 6625

Phe Leu Pro Phe His Leu Cys Val His Pro Gln Leu Asn Ala Ser Val  
20 25 30

Thr Ser Asn Glu Ile Glu Asn Ala Ala Glu Ala Pro Gly Val Xaa Asn  
35 40 45

Thr Gly Lys Gly Ser Trp Ala Ser Leu Leu Val Trp Glu Arg Thr Ser  
50 55 60

Ser Pro Thr Leu Leu Ser Pro Ser Phe Trp Ala Ser Tyr Glu Phe Glu  
65 70 75 80

Ala Phe Asn Lys Leu Tyr Gln Arg Xaa Met Lys Asn Phe Gln Asn Ala  
85 90 95

Ile Gly Lys Gly Cys Ser Xaa Met Val Ala His Leu Lys Gly Ser Pro  
100 105 110

Ile Xaa Leu Val Leu  
115

<210> 7424

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

## 6626

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7424

Lys	Xaa	Phe	Leu	His	Xaa	Xaa	Leu	Xaa	Asp	Ser	Xaa	Cys	Xaa	Xaa	Gly
1				5					10					15	

Asn	Ser	Ser	Phe	Lys	Leu	Phe	Phe	Pro	Thr	Phe	Arg	Leu	Val	Ser	Pro
			20					25					30		

Pro	Asp	Pro	His	Arg	Trp	Ile	Ser	Glu	Xaa	Tyr	Gln	Thr	Gly	Glu	Pro
		35					40					45			

Lys	Lys	Leu	Gly	Leu	Thr	Phe
	50					55

&lt;210&gt; 7425

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

## 6627

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7425

Tyr	Ser	Glu	His	Xaa	Gly	Glu	Ser	Xaa	Ile	Lys	Val	Xaa	Arg	Ser	Xaa
1				5					10					15	

Asn	Ile	Xaa	Glu	Xaa	Phe	Gly	Glu	Thr	Asn	Ile	Pro	Leu	Asn	Val	Ser
			20					25					30		

Arg	Thr	Tyr	Lys	Gly	Pro	Arg	Lys	Pro	Xaa	Xaa	Met	Lys	Lys	Asn	Lys
		35					40					45			

Glu	Ile	Gln	Xaa	Pro	Xaa
					50

6628

&lt;210&gt; 7426

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7426

Asp	Cys	Arg	Xaa	Leu	Ser	Pro	Phe	Lys	Lys	Trp	Xaa	Pro	Gly	Pro	Lys
1				5				10				15			

Ser	Xaa	Xaa	Leu	Val	Arg	Asn	Ser	Arg	Val	Asp	Pro	Arg	Val	Xaa	Ala
			20				25					30			

His

&lt;210&gt; 7427

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)



## 6629

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7427

Xaa	Lys	Ser	Pro	Leu	Ile	Asn	Ile	Gly	Xaa	Xaa	Gly	Lys	Phe	Leu	Gly
1				5				10						15	

Glu	Gly	Phe	Ser	Gly	Cys	Xaa	Phe	Leu	Xaa	Gly	Pro	Tyr	Phe	Leu	Arg
			20					25						30	

Val

<210> 7428

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

## 6630

<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (24)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (48)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (78)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 7428  
Xaa Xaa Xaa Xaa Tyr Ala Cys Met Tyr Arg Ser Gly Ile Pro Gly Ser  
1 5 10 15

## 6631

Thr His Ala Ser Asp Pro Ser Xaa Leu Lys Phe Ser Cys Tyr Ile Gly  
20 25 30

Ile Pro His Xaa Xaa Leu Ser Ser Ile Xaa Gly Trp Met Arg Ala Xaa  
35 40 45

Ile Ser Ser Trp Val Xaa Glu Gln Ile His Gly His Thr Phe Tyr Asn  
50 55 60

Asp Trp Ser Ser Val Leu Gln Ile Lys Xaa Leu Gln Ser Xaa  
65 70 75

<210> 7429

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 6632

<221> SITE  
 <222> (78)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (83)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 7429  
 Gly Pro Gln Ser Pro Ala Ser Ser Val Phe Leu His Trp Pro Pro Gly  
 1 5 10 15  
 Ser Pro Arg Leu Asn Arg Pro Ser Cys Glu Asn His Cys Tyr Arg Cys  
 20 25 30  
 Glu Asn Gly Val Leu Gln Ser Ser Gln Arg Arg Xaa Ile Glu Lys Glu  
 35 40 45  
 Thr Asp Xaa Met Xaa Asn Xaa Leu Gly Lys Glu Ser Phe His Glu His  
 50 55 60  
 Phe Thr Met Leu Pro Xaa Ala Leu Lys Glu Ile Xaa Leu Xaa Leu Phe  
 65 70 75 80  
 Ser Gln Xaa Thr Leu Phe  
 85  
  
 <210> 7430  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (78)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (84)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 7430

## 6633

Glu Arg Met Ser Ser Phe Ser Ser Pro Leu Gly Ile Ser Arg Ala Arg  
 1 5 10 15  
 Arg Gly Lys Thr Lys Thr Gly Asn Val Tyr Lys Asn Cys Ser Arg Phe  
 20 25 30  
 Ala Asn Lys Lys Leu Val Lys Val Ser Lys Asn Gly Asp Trp Xaa Phe  
 35 40 45  
 Pro Gly Arg Lys Asp Ala Arg Gly Leu Ile Gly Glu Lys Leu Gly Thr  
 50 55 60  
 Leu Lys Pro Arg Lys Val Gln Ala Pro Ser Pro Thr Arg Xaa Ser Leu  
 65 70 75 80  
 Phe Phe Ser Xaa

&lt;210&gt; 7431

&lt;211&gt; 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7431

Ile Ile Asn Asn Asn Lys Asn Lys Ala Asn Thr Leu Asp Ile Thr Leu  
 1 5 10 15

Pro Ser Gly Ala Xaa Lys Lys Val Lys Ala Gly Ile Ser Phe Ser Tyr  
 20 25 30

Leu Asn Leu Ser Val Leu Ser Gln Gly Ile Phe Ser Glu Asn Arg Trp  
 35 40 45

Asn Xaa Val Arg Leu Trp Xaa Met Leu Ser Ile Ile Gly

## 6634

50

55

60

&lt;210&gt; 7432

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7432

Arg	Ala	Lys	Gly	Gln	Met	Val	Leu	Pro	Xaa	Pro	Pro	Cys	Xaa	Cys	Gly
1				5					10					15	

Gly	Xaa	Pro	Leu	Ser	Ala	Cys	Xaa	Ala	Leu	Thr	Gly	Asn	Xaa	Leu	Ala
			20					25					30		

Trp	Asn	Leu	Gly	Arg	Gly	Leu	Pro	Ser	His	Pro	Cys	Ser	Ser	Ser	Pro
	35						40					45			

Pro	Thr	Xaa	Asn	Pro
	50			

## 6635

&lt;210&gt; 7433

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 7433

Pro Leu Gly Gly Gly Xaa Pro Thr Gly Pro Pro Phe Trp Ala Xaa Lys  
1 5 10 15

Lys Lys Ile Xaa Asn Pro Arg Gly Gly Phe Pro Xaa Gly Gly Glu Lys  
20 25 30

Ile Phe Pro Pro Pro Arg Gly Gly Gly Phe Pro Ser Lys Xaa Pro Gln  
35 40 45

Thr Xaa Pro Gly Phe Pro  
50